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PB-258 330

Impact of Natural Gas Curtailments on Electric Utility Plants
Volume II. Schedules

Foster Associates, Inc, Washington, D C

Prepared for

Environmental Protection Agency, Research Triangle Park, N C Office of Air Quality Planning and Standards

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16. ABSTRACT

This study was conducted to analyze the impact of natural gas curtailments on electric utility plants through the review of the curtailment plans of interstate pipeline, intrastate pipeline and gas distributors. This analysis determined the availability of natural gas through 1980 to 415 electric utility power plants, the alternate fuel burning capability of these plants and the impact of gas curtailments on the need for alternate fuels such as fuel oil and coal. The study results are presented in a two volume report: the first contains the narrative with pertinent findings and conclusions; the second contains the schedules or data summaries.

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IMPACT OF NATURAL GAS CURTAILMENTS ON ELECTRIC UTILITY PLANTS

VOLUME II - SCHEDULES

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Waste Management
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

EPA-450/3-76-030b

IMPACT
OF NATURAL GAS
CURTAILMENTS
ON
ELECTRIC UTILITY PLANTS
VOLUME II - SCHEDULES

by

Energy Division
Foster Associates, Inc.
Washington, D. C.

Contract No. 68-02-1452
Task No. 1

EPA Project Officer: Rayburn Morrison

Prepared for

ENVIRONMENTAL PROTECTION AGENCY
Office of Air and Waste Management
Office of Air Quality Planning and Standards
Research Triangle Park, North Carolina 27711

August 1975

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Volume Two
Table of Contents

Schedule	Title	Sheets
I-1	United States Gas Consumption by State and Class of Service	1-4
I-2	Natural Gas Consumption and Sources of Gas Supply by Individual Steam-Electric Plants	1-47
I-3	Summary of Electric Utility Purchases of Natural Gas by Type of Supplier - 1973	1
II-1	Pipeline Firm Gas Service Curtailments, Calendar Years 1970 through 1974	1
II-2	Status of Curtailment Plans by Interstate Gas Pipeline Companies as of March 1975	1-4
II-3	El Paso Natural Gas Company Gas Curtailment Proceedings	1-10
II-4	Transcontinental Gas Pipe Line Corporation Gas Curtailment Proceedings	1-9
II-5	United Gas Pipeline Company Gas Curtailment Proceedings	1-7
III-1	State Gas Curtailment Plans 1974-1975 by States	1-2
IV-1	Current and Projected Gas Consumption for Electric Utility Steam-Generating Plants 1973-1980	1-29
IV-2	Reserves Additions, Net Withdrawals and Total Proved Reserves of Natural Gas Contracted to Interstate Pipeline Companies in the United States	1
V-1	Alternative Fuel Burning Capability of Electric Utility Power Plants Burning Gas	1-20
V-2	Summary of Alternative Fuel Burning Capability of Electric Utility Power Plants Burning Gas by State and Region	1-2
V-3	Projected Increases in Fuel Oil and Coal Consumption by Electric Utilities Attributable to the Decline in Natural Gas Consumption Between 1973 and 1980	1
V-4	1973 Distribution of Fuel Consumption By Electric Utilities	1

UNITED STATES GAS CONSUMPTION BY STATE AND CLASS OF SERVICE
1973

(Trillions of Btu's)

Region - State	Residential (1)	Commercial (2)	Industrial Firm (3)	Industrial Interruptible (4)	Industrial Total (5)	Electric Utility Firm (6)	Electric Utility Interruptible (7)	Electric Utility Total (8)	Total (9)
New England	138	56	35	18	56	--	6	6	254
Connecticut	31	14	13	3	16	--	--	--	61
Maine	1	1	a/	a/	a/	--	--	--	2
Massachusetts	86	33	18	11	29	--	6	6	154
New Hampshire	4	2	1	2	3	--	--	--	9
Rhode Island	13	4	3	2	5	--	--	--	22
Vermont	3	1	a/	1	1	--	1	1	6
Appalachian	1,511	609	1,042	279	1,321	18	119	137	3,578
Delaware	8	3	7	4	11	a/	1	1	23
District of Columbia	14	11	--	2	2	--	--	--	27
Kentucky	80	37	57	35	92	a/	8	8	217
Maryland	73	21	27	41	68	9	a/	9	171
New Jersey	144	59	42	45	87	1	25	26	316
New York	351	132	87	36	123	a/	79	79	685
Ohio	443	184	396	41	437	6	1	7	1,071
Pennsylvania	296	113	320	55	375	2	1	3	787
Virginia	47	25	30	19	49	--	4	4	125
West Virginia	56	25	74	1	75	a/	a/	a/	156
Southeast	270	158	303	518	821	127	120	247	1,496
Alabama	57	25	89	97	186	a/	2	2	270
Florida	21	18	20	75	95	127	41	168	302
Georgia	88	41	45	127	172	--	35	35	336
North Carolina	30	21	39	60	99	a/	4	4	154
South Carolina	29	13	31	66	97	--	24	24	163
Tennessee	47	40	78	93	171	--	13	13	271
Great Lakes	1,063	547	893	266	1,159	62	33	95	2,864
Illinois	447	208	329	49	378	33	5	38	1,071
Indiana	155	76	245	37	282	10	a/	10	522
Michigan	349	185	238	118	356	13	3	16	906
Wisconsin	113	79	80	62	142	6	25	31	365
Northern Plains	260	129	156	205	361	5	177	182	932
Iowa	91	41	70	70	140	a/	63	63	335
Minnesota	98	37	55	84	139	5	59	64	338
Nebraska	51	33	30	38	68	--	51	51	203
North Dakota	9	10	1	2	3	--	a/	a/	22
South Dakota	11	7	a/	11	11	--	4	4	33
Mid-Continent	319	135	157	253	410	277	230	507	1,371
Kansas	92	39	68	103	171	7	162	169	471
Missouri	151	60	40	74	114	4	53	57	382
Oklahoma	76	36	49	77	126	266	14	280	518

UNITED STATES GAS CONSUMPTION BY STATE AND CLASS OF SERVICE
1973

(Trillions of Btu's)

Region - State	Residential (1)	Commercial (2)	Industrial Firm (3)	Industrial Interruptible (4)	Industrial Total (5)	Electric Utility Firm (6)	Electric Utility Interruptible (7)	Electric Utility Total (8)	Total (9)
Gulf Coast	439	203	3,297	311	3,608	1,481	318	1,799	6,049
Arkansas	46	24	165	12	177	108	a/	108	355
Louisiana	117	23	1,083	37	1,120	377	71	448	1,708
Mississippi	31	16	123	25	148	42	8	50	245
Texas	245	140	1,925	237	2,162	954	240	1,194	3,741
Rocky Mountain	179	107	40	176	216	17	46	63	565
Colorado	95	65	23	50	83	16	40	56	289
Montana	23	17	2	35	37	1	1	2	79
Utah	47	16	5	52	57	--	4	4	124
Wyoming	14	9	10	39	49	--	1	1	73
Pacific Southwest	733	261	210	604	814	117	497	614	2,422
Arizona	41	34	63	--	63	40	21	61	199
California	654	203	100	602	702	10	453	463	2,022
Nevada	10	9	13	1	14	39	4	43	76
New Mexico	28	14	34	1	35	29	18	47	124
Pacific Northwest	69	44	83	148	231	3	a/	3	347
Idaho	10	8	23	12	35	--	--	--	53
Oregon	23	14	26	38	64	2	--	2	103
Washington	37	22	34	98	132	--	a/	a/	191
Lower 48 States	4,983	2,248	6,216	2,778	8,994	2,104	1,547	3,651	19,876
Other Use a/									1,377
Total, Excluding Field Use									21,253

UNITED STATES GAS CONSUMPTION BY STATE AND CLASS OF SERVICE
1973
(Percent)

Region - State	Residential (1)	Commercial (2)	Industrial Firm (3)	Industrial Interruptible (4)	Industrial Total (5)	Electric Utility Firm (6)	Electric Utility Interruptible (7)	Electric Utility Total (8)	Total (9)
New England	54.3	22.0	14.2	7.1	21.3	--	2.4	2.4	100.0
Connecticut	50.8	23.0	21.3	4.9	26.2	--	--	--	100.0
Maine	50.0	50.0	n/	n/	n/	--	--	--	100.0
Massachusetts	55.9	21.4	11.7	7.1	18.8	--	3.9	3.9	100.0
New Hampshire	44.5	22.2	11.1	22.2	33.3	--	--	--	100.0
Rhode Island	59.1	18.2	13.6	9.1	22.7	--	--	--	100.0
Vermont	49.9	16.7	n/	16.7	16.7	--	16.7	16.7	100.0
Appalachian	42.3	17.0	29.1	7.8	36.9	0.5	3.3	3.8	100.0
Delaware	34.8	13.0	30.4	17.4	47.8	n/	4.4	4.4	100.0
District of Columbia	51.9	40.7	--	7.4	7.4	--	--	--	100.0
Kentucky	36.9	17.0	26.3	16.1	42.4	n/	3.7	3.7	100.0
Maryland	42.7	12.3	15.8	24.0	39.8	5.2	n/	5.2	100.0
New Jersey	45.5	18.7	13.3	14.2	27.5	0.3	8.0	8.3	100.0
New York	51.2	19.3	12.7	5.3	18.0	n/	11.5	11.5	100.0
Ohio	41.4	17.2	37.0	3.8	40.8	0.5	0.1	0.6	100.0
Pennsylvania	37.4	14.6	40.7	7.0	47.7	0.2	0.1	0.3	100.0
Virginia	37.6	20.0	24.0	15.2	39.2	--	3.2	3.2	100.0
West Virginia	35.9	16.0	47.5	0.6	--	n/	n/	n/	100.0
Southeast	18.0	10.6	20.3	34.6	54.9	8.5	8.0	16.5	100.0
Alabama	21.1	9.3	33.0	35.9	68.9	n/	0.7	0.7	100.0
Florida	7.0	6.0	6.6	24.8	31.4	42.0	13.6	55.6	100.0
Georgia	26.2	12.2	13.4	37.8	51.2	--	10.4	10.4	100.0
North Carolina	19.5	13.6	25.3	39.0	64.3	n/	2.6	2.6	100.0
South Carolina	17.8	8.0	19.0	40.5	59.5	--	14.7	14.7	100.0
Tennessee	17.3	14.8	28.8	34.3	63.1	--	4.8	4.8	100.0
Great Lakes	37.1	19.1	31.2	9.3	40.5	2.2	1.1	3.3	100.0
Illinois	41.7	19.4	30.7	4.6	35.3	3.1	0.5	3.6	100.0
Indiana	29.7	14.5	46.9	7.0	53.9	1.9	n/	1.9	100.0
Michigan	38.5	20.4	26.3	13.0	39.3	1.5	0.3	1.8	100.0
Wisconsin	31.0	21.6	21.9	17.0	38.9	1.6	6.9	8.5	100.0
Northern Plains	27.9	13.9	16.7	22.0	38.7	0.5	19.0	19.5	100.0
Iowa	27.2	12.2	20.9	20.9	41.8	n/	18.8	18.8	100.0
Minnesota	29.0	10.9	16.3	24.9	41.2	1.5	17.4	18.9	100.0
Nebraska	25.1	16.3	14.8	18.7	33.5	--	25.1	25.1	100.0
North Dakota	40.9	45.5	4.5	9.1	13.6	--	n/	n/	100.0
South Dakota	33.3	21.2	n/	33.3	33.3	--	12.2	12.2	100.0
Mid-Continent	23.3	9.8	11.4	18.5	29.9	20.2	16.8	37.0	100.0
Kansas	19.5	8.3	14.4	21.9	36.3	1.5	34.4	35.9	100.0
Missouri	39.5	15.7	10.5	19.4	29.9	1.0	13.9	14.9	100.0
Oklahoma	14.7	6.9	9.4	14.9	24.3	51.4	2.7	54.1	100.0

FA-18275

UNITED STATES GAS CONSUMPTION BY STATE AND CLASS OF SERVICE
1973
(Percent)

Region - State	Residential (1)	Commercial (2)	Industrial Firm (3)	Industrial Interruptible (4)	Industrial Total (5)	Electric Utility Firm (6)	Electric Utility Interruptible (7)	Electric Utility Total (8)	Total (9)
Gulf Coast	7.3	3.4	54.5	5.1	59.6	24.5	5.2	29.7	100.0
Arkansas	12.9	6.8	46.5	3.4	49.9	30.4	n/	30.4	100.0
Louisiana	6.8	1.3	63.4	2.2	65.6	22.1	4.2	26.3	100.0
Mississippi	12.7	6.5	50.2	10.2	60.4	17.1	3.3	20.4	100.0
Texas	6.6	3.8	51.6	6.3	57.9	25.3	6.4	31.7	100.0
Rocky Mountain	31.7	18.9	7.1	31.2	38.3	3.0	8.1	11.1	100.0
Colorado	32.9	22.5	8.0	17.3	25.3	5.5	13.8	19.3	100.0
Montana	29.1	21.5	2.5	44.3	46.8	1.3	1.3	2.6	100.0
Utah	37.9	12.9	4.0	42.0	46.0	--	3.2	3.2	100.0
Wyoming	19.2	12.3	13.7	53.4	67.1	--	1.4	1.4	100.0
Pacific Southwest	30.3	10.8	8.7	24.9	33.6	4.8	20.5	25.3	100.0
Arizona	20.6	17.1	31.6	--	31.6	20.1	10.6	30.7	100.0
California	32.3	10.0	5.0	29.8	34.8	0.5	22.4	22.9	100.0
Nevada	13.2	11.8	17.1	1.3	18.4	51.3	5.3	56.6	100.0
New Mexico	22.6	11.3	27.4	0.8	28.2	23.4	14.5	37.9	100.0
Pacific Northwest	19.9	12.7	23.9	42.6	66.5	0.9	n/	0.9	100.0
Idaho	18.9	15.1	43.4	22.6	66.0	--	--	--	100.0
Oregon	22.3	13.6	25.3	36.9	62.2	1.9	--	1.9	100.0
Washington	19.4	11.5	17.8	51.3	69.1	--	n/	n/	100.0
Lower 48 States	25.1	11.3	31.3	13.9	45.2	10.6	7.8	18.4	100.0

n/ Negligible.
a/ Sales or use not otherwise classified, largely pipeline and distributor compressor fuel and losses.

Note: Data may not add vertically to totals due to independent rounding.

Source: Future Requirements Committee, United States Gas Consumption 1973, September 1974.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FPC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Interruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74) a/ (6)	Suppliers (7)	Notes (8)
New England Massachusetts Cambridge Electric Light Co. Kendall Square Plant	-	500	500	100.0%	No	Commonwealth Gas Co., (Algonquin Gas Transmission-Interstate)	
Fitchburg Gas & Electric Co. Fitchburg	-	596	596	100.0%	Yes	Interdepartmental Transfer (Tennessee Gas Pipeline-Interstate)	
Holyoke Gas & Electric Dept. Holyoke	-	950	950	100.0%	No	Interdepartmental Transfer (Tennessee Gas Pipeline-Interstate)	
New Bedford Gas and Edison Light Company - Cannon Street Plant	-	260	260	100.0%	No	Interdepartmental Transfer (Algonquin Gas Transmission - Interstate)	
Western Massachusetts Electric Co. West Springfield	-	E 2,698	2,698	95.6%	No	Springfield Gas Light Co. Springfield, Massachusetts (Tennessee Gas Pipeline Co. - Interstate)	No purchases from Springfield Gas Light in 1974
	-	124 E 2,822	124 2,822	4.4% 100.0%	No	Bay State Gas Co. Springfield, Mass. (Tennessee Gas Pipeline-Interstate)	
Rhode Island Blackstone Valley Electric Co. Pawtucket	-	44	44	100.0%	Yes	Valley Gas Company (Tennessee Gas Pipeline Company - Interstate)	

a/ Or latest prior month available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a] (6)	Suppliers (7)	Notes (8)
Vermont Burlington Electric Dept. J. Edard Moran	-	482	482[b]	100.0%	No	**Vermont Gas Systems** (Trans-Canada Pipeline Ltd.-Canadian)	
Appalachian **Delaware** **The City of Dover** **McKee Run**	-	181	181	100.0%	No	**Eastern Shore Natural** Gas Co. (Transcontinental Gas Pipeline-Interstate)	
Delmarva Power & Light Co. **Edgemoor**	-	641	641	100.0%	No	Interdepartmental transfer (Transcontinental Gas Pipeline-Interstate)	
Kentucky Louisville Gas & Electric Paddy's Run	-	1,374	1,374	100.0%	No	Interdepartmental Transfer (Texas Gas Transmission Corporation - Interstate)	
Cane Run	-	6,318	6,318	100.0%	No	See Above	Offpeak during Summer Offpeak during Summer
New Jersey Atlantic City Electric Co. Deepwater	-	2,855	2,855	100.0%	Yes	South Jersey Gas Co. (Transcontinental Gas Pipeline-Interstate)	
Jersey Central Power & Light Sayerville	-	996	996	100.0%	No	**New Jersey Natural Gas Co. (Algonquin Gas Transmission Corp. Texas Eastern Transmission Corp.-Interstate** South Jersey Gas Co., Transcontinental Gas Pipeline-Interstate)	

a/ Or latest prior month available.
b/ Gas consumption from steam-electric plant factors.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74) a/ (6)	Suppliers (7)	Notes (8)
New Jersey							
Jersey Central Power & Light (Cont.)							
Gilbert	-	564	564	100.0%	No	Elizabeth Gas Co.(Transcontinental Gas Pipe Line Corp., Texas Eastern Trans. Corp., Columbia Gas Trans. Corp., Tennessee Gas Pipeline Corp., Consolidated Gas Supply Corp.-All Interstate)	
Public Service Electric and Gas Co.							
Sewaren	E 527	-	527	39.8%	No	Interdepartmental Transfer (Transcontinental Gas Pipeline Corp.	
	E 797	-	797	60.2%	No	Texas Eastern Transmission Corp.-both Interstate)	
	1,324	-	1,324	100.0%			
Mercer	2,439	-	2,439	100.0%	No	Interdepartmental transfer (Transcontinental Gas Pipeline Corp.)	A neglible amount is also supplied by Texas Eastern- Small amount burned in 1974
Hudson	E 6,754	-	6,754	99.1%	No	Interdepartmental transfer (Transcontinental Gas Pipe-Line Corp.	
	E 61	-	61	.9%	No	Texas Eastern Transmission Corp. -Both Interstate)	
	E6,815	-	6,815	100.0%			
Bergen	2,739		2,739	100.0%	No	Interdepartmental transfer (Transcontinental Gas Pipeline Corp.- Interstate)	
New York							
Consolidated Edison Co., N.Y.							
Waterside	-	E 7,901	7,901	76.1%	No	Interdepartmental transfer (Transcontinental Gas Pipeline Corp.	
	-	E 768	768	7.4%	No	Tennessee Gas Transmission Co.	In 1973, showed contract as firm. In 1974 shown as interruptible.
	-	E 42	42	.4%	No	Algonquin Gas Transmission Co.	
	-	E 1,671	1,671	16.1%	No	Texas Eastern Gas Transmission Corporation-all interstate)	
	-	10,382	10,382	100.0%			

a/ Or latest prior month available.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases: Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
New York							
Consolidated Edison Co., N.Y. (continued)							
Ravenswood	3,209	-	3,209	75.3%	No	Interdepartmental Transfer (Transcontinental Gas Pipeline Corp.	
	305	-	305	7.1%	No	Tennessee Gas Transmission Corp.	In 1973, showed contract as firm. In 1974, shown as interruptible.
	20	-	20	.5%	No	Algonquin Gas Transmission Co.	
	678	-	678	16.0%	No	Texas Eastern Gas Transmission Corp.	
	49	-	49	1.1%	No	Brooklyn Union (Transcontinental, Tennessee Gas Pipeline, Texas Eastern Gas Transmission)	
	4,261	-	4,261	100.0%		All Interstate	
Hellgate	35	-	35	81.4%	No	Interdepartmental Transfer (Transcontinental	
	2	-	2	4.6%	No	Tennessee	Same as above
	-	-	-	-	No	Algonquin	
	6	-	6	14.07	No	Texas Eastern)	
	43	-	43	100.0%		Interstate	
East River	7,488	-	7,488	75.8%	No	Interdepartmental Transfer (Transcontinental	
	746	-	746	7.5%	No	Tennessee	Same as above
	47	-	47	.5%	No	Algonquin	
	1,545	-	1,545	15.7%	No	Texas Eastern)	
	57	-	57	.5%	No	Brooklyn Union (see above)	
	9,883	-	9,883	100.0%		(Interstate)	
Astoria	6,049	-	6,049	75.8%	No	Interdepartmental Transfer (Transcontinental	
	578	-	578	7.2%	No	Tennessee	Same as above
	34	-	34	.4%	No	Algonquin	
	1,254	-	1,254	15.8%	No	Texas Eastern)	
	63	-	63	.8%	No	Brooklyn Union (see above)	
	7,978	-	7,978	100.0%		Interstate	

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FA-10903

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
New York (Continued)							
Long Island Lighting Company							
Glenwood	-	190	190	100.0%	No	Interdepartmental Transfer (Transcontinental Gas Pipeline Corporation-Texas Eastern Gas Transmission Corp. - Tennessee Gas Pipeline Co.)	Offpeak
						All Interstate	
Far Rockaway	-	137	137	100.0%	No	Same as above	Offpeak
E.F. Barrett	-	3,600	3,600	100.0%	No	Same as above	Offpeak
Orange & Rockland Utilities							
Lovett	N/A	N/A	2,936	28.9%	N/A	Interdepartmental Transfer (Tennessee Gas Pipeline Co.	
	N/A	N/A	973	9.6%	N/A	Algonquin Gas Transmission Co.-AGT	
	N/A	N/A	5,558	54.6%	N/A	Columbia Gas Transmission Corp.	
	N/A	N/A	704	6.9%	N/A	Texas Eastern Transmission Corp.)	
	N/A	N/A	10,171	100.0%			
						All Interstate	
Bowline	N/A	N/A	60	35.8%	N/A	Interdepartmental Transfer (Tennessee Gas Pipeline Co.	
	N/A	N/A	15	8.6%	N/A	Algonquin Gas Transmission Co.	
	N/A	N/A	81	48.3%	N/A	Columbia Gas Transmission Corp.	
	N/A	N/A	12	7.3%	N/A	Texas Eastern Transmission Corp.)	
	N/A	N/A	168	100.0%		All Interstate	

a/ Or latest prior month available.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Ohio							
Columbus Division of Electricity Columbus	-	906	906	100.0%	Yes	Columbus Gas of Ohio, Inc. (Columbia Gas Transmission Corp-Interstate)	
City of Hamilton Hamilton	-	1,036	1,036	100.0%	No	Interdepartment Transfer (Texas Gas Transmission Corp.-Interstate)	
Cincinnati Gas & Electric Co. West End	5,596	-	5,596	100.0%	N/A	Interdepartment Transfer (Columbia Gas Transmission Corp. - Interstate)	
Toledo Edison Acme	-	18	18	100.0%	Yes	Columbus Gas of Ohio, Inc. (Columbia Gas Transmission Corp. - Interstate)	
Pennsylvania							
Philadelphia Electric Co. Barbadoes	-	2,018	2,018b/	100.0%	No	Interdepartmental Transfer (Transcontinental Gas Pipeline Corp - Interstate)	
Virginia							
Danville Water Gas & Electric Brantly	-	1,332	1,332	100.0%	No	Interdepartmental transfer (Transcontinental Gas Pipeline Corporation- Interstate)	Small amount of gas purchased in August of 1974

a/ Or latest prior month available
b/ 1974 Volume from ADR printout.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Inter-ruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	 Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Southeast							
Alabama							
Alabama Electric Coop Inc. McWilliams	-	969	969	100.0%	Yes	Southeast Ala. Gas District (Southern Natural Gas Co.- Interstate)	
Alabama Power Company Gadsden	-	836	836	100.0%	Yes	Southern Natural Gas Company -(Interstate)	Contract listed as Firm in 1973, interruptible in 1974
Chickasaw	-	576	576	100.0%	Yes	Mobile Gas Service Corp. (United Gas Pipeline Co. - Interstate)	
Florida							
Florida Power Corporation Turner	7,164	-	7,164	100.0%	No	Producers in Louisiana transported by Florida Gas Transmission	Note accompanying 423 Report "Firm Gas Purchases delivered by Florida Gas Transmission Company are comingled with small amounts of interruptible gas purchases from Florida Gas Transmission Company. Therefore, minor amounts of interruptible gas cannot be separated from firm gas, as costs are allocated to various plants."
Higgins	760	-	760	100.0%	No	See above	See above
Inglis	2,254	-	2,254	100.0%	No	See above	See above
Suwanee River	-	1,564	1,564	100.0%	No	South Georgia Natural Gas Co. (Interstate)	

a/ Or latest prior month available.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases: Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Florida							
Florida Power Corp. (continued)							
Bartow	2,521	-	2,521	100.0%	No	See notes for Turner Plant	Small amounts of interruptible gas comingled...see notes for Turner Plant.
Avon Park	1,558	-	1,558	100.0%	No	See above	See above
Florida Power & Light Co.							
Riviera	15,021	-	15,021	100.0%	No	Purchased from Producers and transported by Florida Gas Transmission	
Sanford	4,105	-	4,105	100.0%	No	See above	
Palatka	2,066	-	2,066	100.0%	No	See above	
Port Everglades	27,218	-	27,218	100.0%	No	See above	
Miami	406	-	406	100.0%	No	See above	
Turkey Point	8,850	-	8,850	100.0%	No	See above	
Lauderdale	4,079	-	4,079	100.0%	No	See above	
Cape Kennedy	18,139	-	18,139	100.0%	No	See above	
Cutler	13,868	-	13,868	100.0%	No	See above	

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NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Inter-ruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Florida (continued) Gainesville Utilities Dept. J.R. Kelly	-	3,208	3,208	100.0%	No	Florida Gas Transmission Co. (Interstate)	
Deer Haven	-	1,996	1,996	100.0%	No	Florida Gas Transmission Co. (Interstate)	
Fort Pierce Utilities Authority King	-	1,700	1,700	100.0%	No	Florida Gas Transmission Co. (Interstate)	
Gulf Power Company Crist	E 2,072	-	2,072	44.9%	No	Florida Producer	
	E 2,542	-	2,542	55.1%	No	United Gas Pipeline Co. (Interstate)	
	4,614	-	4,614	100.0%			
Lakeworth Utilities Authority Tom G. Smith	-	2,674	2,674	100.0%	No	Florida Public Utilities Co. (Fla. Gas Transmission Co. - Interstate)	
City of Lakeland Dept. Electric & Water Utilities Power Plant # 3	-	591	591	100.0%	Yes	Florida Gas Transmission Co. (Interstate)	
Lake Parker Plant	-	2,256	2,256	100.0%	Yes	Florida Gas Transmission Co. (Interstate)	

a/ Or latest prior month available.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

	1973 Gas Purchases						
FRC Region State Electric Utility Plant (1)	Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliver-ies (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Florida (continued)							
Orlando Utility Commission							
Lake Highland	-	2,381	2,381	100.0%	No	Florida Gas Transmission Co. (Interstate)	
Indian River	-	8,439	8,439	100.0%	No	Florida Gas Transmission Co. (Interstate)	
City of Tallahassee							
Hopkins	-	3,075	3,075	100.0%	No	Florida Gas Transmission Co.	
Purdom	-	3,376	3,376	100.0%	No	Florida Gas Transmission Co. (Interstate)	
City of Vero Beach, Fla.							
Vero Beach	-	1,939	1,939	100.0%	No	Florida Gas Transmission Co. (Interstate)	
Georgia							
Georgia Power Co.							
Yates	-	2,762	2,762	100.0%	Yes	Atlanta Gas Light Co.	Southern Natural Gas Co. Transcontinental Gas Pipe Lines South Georgia Natural Gas Co. (all interstate pipelines)
McDonough	-	7,127	7,127	100.0%	Yes	Atlanta Gas Light Co.	
Atkinson	-	11,182	11,182	100.0%	Yes	Atlanta Gas Light Co.	
Arkwright	-	3,163	3,163	100.0%	Yes	Atlanta Gas Light Co.	
Savannah Electric Power Co.							
Riverside Station	-	3,533	3,533	100.0%	No	Atlanta Gas Light Co.	
Port Wentworth Station	-	2,397	2,397	100.0%	No	Atlanta Gas Light Co.	
North Carolina							
Carolina Power & Light Co.							
Weatherspoon	-	841	841	100.0%	N/A	North Carolina Natural Gas Corp. (Transcontinental Gas Pipeline Corp. - Interstate)	

a/ Or latest prior month available.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases: Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74) a/ (6)	Suppliers (7)	Notes (8)
North Carolina (Continued) Carolina Power & Light Co. (continued)							
Lee	-	70	70	100.0%	N/A	**North Carolina Natural Gas** (Transcontinental Gas Pipe Line Corp. - Interstate)	
South Carolina Carolina Power & Light Co. Robinson	-	3,596	3,596	100.0%	N/A	**Carolina Pipeline Company** (Transcontinental Gas Pipe Line Corp. & Southern Natural Gas Co. - Interstate)	
Duke Power Company Lee	-	1,862	1,862	100.0%	N/A	**Piedmont Natural Gas Company** (Transcontinental Gas Pipe Line Corp. & North Carolina Natural Gas Corp. which in turn buys gas from Transcontinental - Interstate)	
Greenwood	-	886	886	100.0%	No	**Greenwood Commissioners of** Public Works (Transcontinental Gas Pipe Line Co. - Interstate & Carolina Pipe Line Co. which in turn buys gas from Transcontinental Gas Pipe Line Corp. & Southern Natural Gas Co. - Interstate)	
Tennessee Tennessee Valley Authority Allen	-	13,658	13,658	100.0%	No	**Memphis Light, Gas & Water** (Texas Gas Transmission Corp.- Interstate)	Received no gas in 1974

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NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Great Lakes							
Illinois							
Central Illinois Light Co.							
Keystone	1,288	-	1,288	100.0%	No	Interdepartmental Transfer (Panhandle Eastern Pipeline Co.-Interstate)	
Wallace	3,421	-	3,421	100.0%	No	Interdepartmental Transfer (Panhandle Eastern Pipeline Co.-Interstate)	
Commonwealth Edison Co.							
Fisk	752	21	773	100.0%	No	The Peoples Gas Light & Coke Co. (Natural Gas Pipeline Co. of America and Midwestern Gas Transmission-both Interstate)	All plants list contract as (IFOP) Jan-July; F Aug - Dec.
Crawford	2,031	1,185	3,216	100.0%	No		
Calumet	1,671	E 1,969	3,640	100.0%	No		
Waukegan	N/A	N/A	8,448b/	100.0%	No	Northern Illinois Gas Co. (Natural Gas Pipeline Co. of America and Midwestern Gas Transmission - both Interstate)	
Sabrooke	579	E 803	1,382	100.0%	No		
Dixon	233	E 327	573	100.0%	Yes		
Joliet	1,732	E 2,549	4,281	100.0%	No		
Illinois Power Co.							
Wood River	-	2,078	2,078	100.0%	No	Union Electric Co. (Mississippi River Transmission - Interstate)	
Hennepin	-	69	69	100.0%	N/A	Interdepartmental Transfer (Natural Gas Pipeline Co. of America - Interstate)	Offpeak
Iowa Illinois Gas & Elec. Co.							
Moline	-	1,597	1,597	100.0%	No	Natural Gas Pipeline Co. (Interstate)	
Union Electric Co.							
Venice # 2	-	2	2	100.0%	Yes	Mississippi River Trans- (Interstate)	No gas purchased in 1974
Village of Winnetka							
Winnetka	-	425	425	100.0%	Yes	North Shore Gas Co. (Natural Gas Pipeline Co. of America-Interstate)	

a/ Or latest prior month available.

b/ 1974 Volume from ADR Printout.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Inter-ruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a/] (6)	Suppliers (7)	Notes (8)
Indiana							
Frankfort Light & Pwr. Plant **Frankfort**	N/A	N/A	73	100.0%	No	**Indiana Gas Co.** **(Panhandle Eastern-Interstate)**	
Northern Indiana Pub. Serv. Co.						**Interdepartmental transfer (lists Gas Pipeline Co. of America - Interstate - also buys gas from 5 other Interstate pipelines)**	
Bailly	N/A	N/A	190	100.0%	No		
Michigan City	N/A	N/A	3,067	100.0%	No		
Mitchell	N/A	N/A	252	100.0%	No		
Southern Indiana Gas & Elect. Ohio River	-	3,241	3,241	100.0%	No	**Interdepartment transfer (Texas Gas Transmission-** Interstate)	
Michigan							
Marquette Board of Light &Pwr **Shiras**	-	-	245[b/]	100.0%	No	**Michigan Power Co. (Northern** Natural Gas Co., Michigan Wisconsin Pipeline Co.-Interstate)	**Gas purchased in 1974 on an interruptible basis**
City of **Traverse** **Bayside**	-	-	138[b/]	100.0%	No	Michigan **Consolidated Gas Co., (Michigan Wisconsin Pipeline Co., Panhandle Eastern Pipeline Co, Great Lakes Trans-mission** Co.-Interstate-some Michigan Production)	**Gas purchased in 1974 on an interruptible basis**
Holland Board of Pub Works **J. DeYoung**	-	340	340	100.0%	Yes	**Michigan Power Co. (Northern** Natural Gas Co., Michigan Wisconsin Pipeline Co.-Interstate)	**See above**
Michigan State University **Power Plant #65**	26	2,687	2,713	100.0%	Yes	**Consumers Power Co. (Michigan** Gas Storage Co. and Trunkline Gas Co. - both Interstate and Michigan Production)	

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a/ Or latest prior month available.
b/ 1974 Volume FromADR Printout.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a/] (6)	Suppliers (7)	Notes (8)
Michigan (continued)							
Detroit Edison Company							
Trenton Channel	N/A	N/A	8,860	100.0%	Yes	Michigan Consolidated Gas Co. (Michigan Wisconsin Pipeline Co., Panhandle Eastern Pipeline Co. - Both Interstate - and Michigan Production) Southeastern Michigan Gas Co. (Panhandle Eastern Pipeline Co. - Interstate - and Michigan Consolidated Gas (see above))	Includes Indeterminate Amounts Of Both Firm and Interruptible
Wyandotte N.	N/A	N/A	1,388	100.0%	Yes		
Delray	N/A	N/A	4,792[b/]	100.0%	Yes		
Connors Creek	N/A	N/A	9,480	100.0%	Yes		
River Rouge	N/A	N/A	93[b/]	100.0%	Yes		
St. Clair	N/A	N/A	200	100.0%	Yes		
Marysville	N/A	N/A	81	100.0%	Yes		
City of Wyandotte							
Wyandotte	E 695	E 1,493	2,188	100.0%	Yes	Michigan Consolidated Gas Co. (Michigan Wisconsin Pipeline Co., Panhandle Eastern Pipeline Co., - Both Interstate- and Michigan Production)	Buys Firm For Gas Turbine and Interruptible for Steam
Wisconsin							
Marshfield Elec. & Water Dept.							
Wildwood	-	406	406	100.0%	Yes	Wisconsin Gas Co. (Michigan Wisconsin Pipeline Co., Midwestern Gas Transmission Co., Northern Natural Gas Co. - (All Interstate)	
Lake Superior District Power							
Bay Front	-	1,131	1,131	100.0%	No	(Northern Natural Gas - Interstate)	

[a/] Or Latest Prior Month Available
[b/] Blast Furnace Gas Excluded.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Inter-ruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	 Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Wisconsin (continued)							
Madison Gas & Elec. Co.							
Blount Street	-	4,899	4,899	100.0%	No	Interdepartmental Transfer (Michigan Wisconsin Pipeline Co. - Interstate)	
Superior Water Light & Pwr. Co.							
Winslow	-	353	353	100.0%	No	Interdepartmental Transfer (Northern Natural Gas Co. - Interstate)	
Wisconsin Pub. Serv. Corp.							
Pulliam	-	180	180	100.0%	Yes	Interdepartmental Transfer (Michigan-Wisconsin Pipeline Co. - Interstate)	
Weston	-	2,148	2,148	100.0%	Yes	See above	
Wisconsin Pwr. & Light Co.							
Blackhawk	-	2,483	2,483	100.0%	No	See above	
Wisconsin Elec. Pwr. Co.							
Lakeside	-	6,227	6,227	100.0%	No	Wis. Natural Gas Co. (Michigan Wisconsin Pipeline Co.-Interstate)	Includes Some Gas Turbine
N. Oak Creek	-	15	15	100.0%	No		
Commerce	-	1,551	1,551	100.0%	No	Wisconsin Gas Co. (Michigan Wisconsin Pipeline Co. Midwestern Gas Transmission Co. Northern Natural Gas Co. - All Interstate)	

a/ Or Latest Prior Month Available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FPC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a/] (6)	Suppliers (7)	Notes (8)
Northern Plains							
Iowa							
City of Ames Electric Utility Ames Municipal	-	1,668	1,668	100.0%	Yes	Iowa Electric Light & Power (Northern Natural Gas Co. - Interstate)	
Cedar Falls Municipal Utilities Streeter Station	-	1,152	1,152	100.0%	No	Interdepartmental Transfer (Northern Natural Gas Co. - Interstate)	
Eastern Iowa Light & Power Cooperative Fair Station	-	1,098	1,098	100.0%	No	Interdepartmental transfer (Natural Gas Pipeline Co. of America - Interstate)	
Corn Belt Power Cooperative Humbolt Station	-	1,283	1,283	100.0%	No	Northern Natural Gas Co. (Interstate)	
Wisdom Station	-	1,603	1,603	100.0	No	Northern Natural Gas Co. (Interstate)	
Interstate Power Company Dubuque	-	1,662	1,662	100.0%	Yes	Peoples Natural Gas Division of Northern Natural (Northern Natural Gas Co. Natural Gas Pipeline Co. Of America - Both Interstate)	
M. L. Kapp Station	-	170	170	100.0%	Yes	Interdepartmental transfer (Natural Gas Pipeline Co., of America - Interstate)	

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a/ Or latest prior month available.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Inter-ruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliver-ies (5)	 Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Iowa (continued)							
Iowa Electric Light and Pwr. Co.							
Sutherland Station	-	8,076	8,076	100.0%	No	Interdepartmental transfer (Northern Natural Gas Co. Interstate)	
Sixth Street	-	1,010	1,010	100.0%	No	Interdepartmental transfer (Iowa - Illinois Gas & Electric (Natural Gas Pipeline Co. of America - Interstate))	
Boone	-	1,854	1,854	100.0%	No	Interdepartmental transfer (Northern Natural Gas Co. - Interstate)	
Prairie Creek Station # 4	-	515	515	100.0%	No	Interdepartmental transfer (Iowa - Illinois Gas & Electric (Natural Gas Pipeline Co. of America))	
Prairie Creek # 1-3	-	1,411	1,411	100.0%	No	See above	
Iowa Public Service Co.							
Neal Station	-	4,883	4,883	100.0%	No	Interdepartmental transfer (Northern Natural Gas Co. - Interstate)	
Big Sioux Station	-	1,293	1,293	100.0%	No	See above	
Maynard Station	-	3,581	3,581	100.0%	No	See above	
Iowa - Illinois Gas & Elec. Co.							
Riverside Generating Station	-	3,948	3,948	100.0%	No	Interdepartmental transfer (Natural Gas Pipeline Co. - (Interstate)	Includes Small Amounts Of Firm Gas
Iowa Power & Light Co.							
Des Moines Power Station	-	11,427	11,427	100.0%	Yes	Interdepartmental transfer (Northern Natural Gas Co.- Interstate)	

a/ Or Latest Prior Month Available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FPC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Iowa							
Iowa Power & Light Co. (Continued) Council Bluffs Power Station	-	2,431	2,431	100.0%	Yes	Peoples Division of Northern Natural Gas Co. (Northern Nat. Gas Pipeline Co. of America-both interstate	
Muscatine Pwr. & Water Muscatine Municipal	-	2,076	2,076	100.0%	No	Iowa Electric Light & Pwr. (Northern Natural Gas Co. Natural Gas Pipeline Co. of America, Michigan Wisconsin Pipeline Co. - Kansas - Nebraska Natural Gas Co. - all interstate)	
Minnesota							
Austin Utilities - Austin	N/A	N/A	2,534	100.0%	No	Interdepartmental Transfer (Northern Natural Gas Co.-Interstate)	Largely Interruptible
Interstate Power Company Fox Lake	-	1,329	1,329	100.0%	Yes	Northern Natural Gas Co. Interstate)	
Minnesota Power & Light Co.- M. L. Hibbard Steam Elec. Sta.	-	495	495	100.0%	N/A	City of Duluth (Northern Natural Gas Co. - Interstate)	
Owatonna Public Utilities Central Plant	-	-	1,255b/	100.0%	N/A	N/A	
Northern States Power Co. Southeast Steam Plant	-	538	538	100.0%	Yes	Minnegasco (Northern Natural Gas Co. - Interstate)	Plant Retired in September 1974
Riverside Steam Plant	-	6,227	6,227	100.0%	No	Minnegasco (Northern Natural Gas Co. - Interstate)	

a/ Or Latest Prior Month Available
b/ Steam Electric Plant Factors

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a/] (6)	Suppliers (7)	Notes (8)
Minnesota							
Northern States Power Co. (continued)							
Black Dog Steam Plant	-	11,062	11,062	100.0%	No	Minnegasco (Northern Natural Gas Co. - Interstate)	
High Bridge Steam Plant	-	12,775	12,775	100.0%	No	Interdepartmental transfer (Northern Natural Gas Co. - Interstate)	
Red Wing Steam Plant	-	1,104	1,104	100.0%	No	See above	
Wilmarth Steam Plant	-	719	719	100.0%	No	Minnesota Natural Gas Co. (Northern Natural Gas Co. - Interstate)	
Minnesota Valley Steam Plant	-	580	580	100.0%	No	Great Plains Gas Co. (Northern Natural Gas Transmission Co. - both Interstate)	
United Power Association							
Elk River Power Station	-	335	335	100.0%	Yes	North Central Public Service Co., Coon Rapids, (Northern Natural Gas Co., Midwestern Gas Transmission -both Interstate)	
Rochester Dept. of Public Utilities							
Silver Lake	N/A	N/A	2,309	100.0%	No	Interdepartmental transfer (Northern Natural Gas Co.-Interstate)	Listed as Largely Interruptible in 1973, Firm in 1974.
Public Utility Commission - New Ulm Public Utilities	-	1,094	1,094	100.0%	No	See above	
Wilmar Municipal Utility Commission	-	396	396[b/]	100.0%	No	See above	
Nebraska							
Nebraska Public Power District							
Sheldon Station	-	7,567	7,567	100.0%	No	Cengas, Lincoln - Central Telephone Utilities Corp. (Northern Natural Gas Co-Interstate)	Includes Fuel Use Chargeable to Steam Operation

[a/] Or Latest Prior Month Available
[b/] 1973 Data From Steam Electric Plant Factors

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Nebraska							
Nebraska Public Power District (Continued) Bluffs Plant	-	3,003	3,003	100.0%	Yes	Kansas-Nebraska Natural Gas Co. (Interstate)	
Lincoln "K" St. Plant	-	717	717	100.0%	No	Cengas, Lincoln - Central Telephone & Utilities Corp. (Northern Natural Gas Co. - Interstate)	
Kramer Power Station	-	2,269	2,269	100.0%	No	Northern Natural Gas Co. - (Interstate)	
Hastings Utilities North Denver	-	2,044	2,044	100.0%	Yes	Kansas-Nebraska Natural Gas Co. - (Interstate)	
Fremont Dept. of Utilities Lon D. Wright Memorial Pwr. Plant	-	1,916	1,916	100.0%	No	Nebraska Natural Gas Co. (Northern Natural Gas Co., Kansas-Nebraska Natural Gas Co. Both Interstate)	Listed as Firm in 1974
Grand Island Utilities C. W. Burdick Station	-	3,727	3,727	100.0%	No	Kansas-Nebraska Natural Gas Co., Inc. (Interstate)	Includes Both Steam and Gas Turbine
Omaha Public Power District Jones St. Station	-	1,659	1,659	100.0%	Yes	Metropolitan Utilities Dis. (Northern Natural Gas - Interstate)	
North Omaha Station	-	17,006	17,006	100.0%	Yes	See above	
Central Nebraska Public Pwr. & Irr. District - Canady Steam Plant	-	6,231	6,231	100.0%	No	Kansas-Nebraska Natural Gas (Interstate)	
South Dakota							
Northern States Pwr. Co. - Pathfinder Steam Plant	-	1,066	1,066	100.0%	No	Central Telephone Utilities Corp. (Northern Natural Gas Co. - Interstate)	
Lawrence Plant	-	1,515	1,515	100.0%	No	See above	

a/ Or Latest Prior Month Available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a/] (6)	Suppliers (7)	Notes (8)
Mid Continent							
Kansas							
Central Telephone & Utilities Corporation							
Mullergren	32	6,539	6,571	100.0%	No	Kansas Power & Light Co. (Kansas Production 88%, the remainder from Northern Natural Gas Co. and Cities Service Gas Co., both interstate)	
Cimmaron River	3,485	-	3,485	100.0%	No	Kansas Producer	
Judson Large	-	4,091	4,091	62.1%	No	People's Natural Gas Co. (Northern Natural Gas Co., Colorado Interstate Gas, Cities Service Gas, and Kansas-Nebraska Natural Gas, - All Interstate - and Kansas Power and Light Co. and Wellhead Purchases)	
	-	2,500 6,591	2,500 6,591	37.9% 100.0%	No	Cities Service Gas Co. (Interstate)	
City of Coffeyville							
Coffeyville	-	1,637	1,637	100.0%	Yes	Union Gas System, Inc. (Cities Service Gas Co. - Interstate)	
Empire District Electric Co.							
Riverton	-	5,246	5,246	100.0%	Yes	Cities Service Gas Company, (Interstate)	Both Steam and Gas Turbine
Kansas Gas & Electric Co.							
Ripley	-	8,651	8,651[b/]	100.0%	Yes	Cities Service Gas Co. (Interstate)	
Neosho	-	4,494	4,494	100.0%	Yes	See above	
Gill	-	4,534	4,534	30.2%	Yes	Cities Service Gas (Interstate)	
	-	10,379 14,913	10,379 14,913	69.8% 100.0%	No	Kansas Gas Supply Corp. (Intrastate)	

[a/] Or Latest Prior Month Available
[b/] From Steam-Electric Plant Factors

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases						
	Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Kansas							
Kansas Gas & Electric Co.(cont'd)							
Evans	-	8,487	8,487	30.8%	Yes	Cities Service Gas Co. (Interstate)	
	-	18,907	18,907	69.2%	No	Kansas Gas Supply Corp. (Intrastate)	
		27,394	27,394	100.0%			
Board of Public Utilities, Kansas City, Kansas							
Quindaro Power Station (#3)	-	7,615	7,615	100.0%	Yes	The Gas Service Co. (Cities Service Gas Co.-Interstate)	
Quindaro Power Station (#2)	-	2,774	2,774	100.0%	Yes	See above	
Kaw Power Station	-	7,092	7,092	100.0%	Yes	See above	
Board of Public Utilities, City of McPherson, Kansas							
McPherson #2	-	2,403	2,403	100.0%	No	Kansas Power & Light Co. (Kansas Production 88%, The Remainder from Northern Natural Gas Co. and Cities Service Gas Co., Both Interstate)	
Kansas Power & Light Co.							
Tecumseh	-	8,321	8,321	100.0%	No	Cities Service Gas Co. (Interstate)	Includes Steam and Gas Turbine
Abilene	-	1,707	1,707	100.0%	No	Interdepartmental transfer (Kansas production 88% the remainder from Northern Natural Gas Co. and Cities Service Gas Co., both interstate)	Includes Steam and Gas Turbine
Lawrence	-	24,415	24,415	100.0%	No	Cities Service Gas Co. - (Interstate)	
Hutchinson	-	16,149	16,149	100.0%	No	Interdepartmental Transfer (See Abeline)	Includes Steam and Gas Turbine

a/ Or Latest Prior Month Available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Interruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	 Contract Expires Within 24 Mos. (As of 12/74)[a/] (6)	Suppliers (7)	Notes (8)
Kansas (continued)							
Central Kansas Gas Power Company							
Ross Beach	-	2,058	2,058	100.0%	Yes	Kansas-Nebraska Natural Gas Company - (Interstate)	
Wellington Light Department							
Wellington	N/A	N/A	623[b/]	N/A	No	The Gas Service Co. (Cities Service Gas Co. - Interstate)	Deliveries Designated as "S" in 1974
City of Winfield Electric Department							
Winfield	-	920	920	100.0%	Yes	Arkansas Louisiana Gas, Co. (Interstate)	Deliveries Designated as Firm in Arkla Form 2
Wheatland Elec. Co-op, Inc.							
Garden City	N/A	N/A	3,439	100.0%	N/A	Peoples Natural Gas Co., Kansas (Northern Natural Gas Co., Colorado Interstate Gas, Cities Service Gas, and Kansas-Nebraska Natural Gas, all interstate Kansas Power and Light Co., and Wellhead Purchases)	Largely Firm in 1973; 1974 Purchased 10% From Producers
Missouri							
Arkansas-Missouri Power Company							
Jim Hill	-	627	627	100.0%	No	Interdepartmental transfer (Texas Eastern Transmission Corp. - Interstate)	
Springfield Utilities							
James River	-	8,587	8,587	100.0%	Yes	Cities Service Gas Co. (Interstate)	

a/ Or Latest Prior Month Available

b/ From Steam-Electric Plant Factors

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

	1973 Gas Purchases						
FRC Region State Electric Utility Plant (1)	Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Missouri (Continued)							
City Power & Light Department, Independence, Mo.							
Blue Valley	-	4,859	4,859	100.0%	No	The Gas Service Co. (Cities Service Co.,- Interstate)	
City of Columbia Municipal Water & Light							
Columbia	N/A	N/A	1,040	100.0%	Yes	Missouri Utilities Co. (Panhandle Eastern - Interstate)	Largely Firm in 1973
Kansas City Power & Light Co.							
Grand Avenue	N/A	N/A (see note)	1,197	100.0%	(See Note)	The Gas Service Co. (Cities Service Gas Co.- Interstate)	Firm Purchases of Gas Are Under Contract on an Annual Basis - Interruptible Are on A Month-To-Month Basis
Northeast	N/A	N/A (see note)	1,995	100.0%	(See Note)	The Gas Service Co. - (Cities Service Gas Co.- Interstate)	See above
Hawthorne	N/A	N/A (see note)	14,245	100.0%	(see note)	The Gas Service Co. - (Cities Service Gas Co. - Interstate)	See above
Missouri Public Service Co.							
Ralph Green	- - -	E 1,635 E 226 1,861	E 1,635 E 226 1,861	87.9% 12.1% 100.0%	No	Cities Service Gas Co. - (Interstate) The Gas Service Co. (Cities Service Gas Co.- Interstate)	
St. Joseph Light & Pwr. Co.							
Lake Road	-	11,534	11,534	100.0%	Yes	The Gas Service Company (Cities Service Gas Co. Interstate)	Includes Steam and Gas Turbine
Edmond Street	-	1,718	1,718	100.0%	Yes	The Gas Service Co. (Cities Service Gas Co.- Interstate)	

a/ Or Latest Prior Month Available

Schedule 1-2
Sheet 24 of 47

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a] (6)	Suppliers (7)	Notes (8)
Missouri (continued)							
Union Electric Company							
Meramec	-	109	109	100.0%	Yes	Mississippi River Transmission Corp. (Interstate)	Received No Gas in 1974
Marshall Municipal Utilities							
Marshall	-	249	249[b]	100.0%	No	Missouri Public Service Co. (Cities Service Gas Co. & Panhandle Eastern Pipeline Company - both Interstate)	Not In Operation in 1973. First Record of Gas Purchases Was In June of 1974
Oklahoma							
Grand River Dam Authority							
Chouteau	-	4,078	4,078	100.0%	Yes	Oklahoma Natural Gas Co. (Intrastate)	
Oklahoma Gas and Electric Co.							
Belle Isle Sta.	-	1,129	1,129	100.0%	Yes	Oklahoma Natural Gas Co. (Intrastate)	
Arbuckle Station	N/A	N/A	3,870	100.0%	N/A	Oklahoma Gas and Electric Co. Functions as its Own Supplier Of Natural Gas For Fuel Used at These Plants . Natural Gas Is Obtained from The Original Sources (All Within The State of Oklahoma) and Is Commingled In Common Gathering and Transmission Facilities.	
Horseshoe Lake Station	N/A	N/A	35,379	100.0%	N/A		
Mustang Station	N/A	N/A	33,414	100.0%	N/A		
Seminole	N/A	N/A	55,227	100.0%	N/A		
Muskogee Sta. (Riverbank)	N/A	N/A	11,945	100.0%	N/A		

[a] Or Latest Prior Month Available
[b] 1974 Volume for ADR Printout.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a] (6)	Suppliers (7)	Notes (8)
Oklahoma							
Oklahoma Gas & Electric (continued)							
Osage Station	-	2,027	2,027		Yes	Oklahoma Natural Gas Co. (Intrastate)	
Public Service Company of Oklahoma							
Comanche	N/A	N/A	108		No	Transok Pipeline (Intrastate) System Owned By Public Service Company of Oklahoma)	Began Operation in 1974
Weleetka	N/A	N/A	1,620		No		
Tulsa	N/A	N/A	25,759		No		
Southwestern	N/A	N/A	29,476		No		
Northeastern	N/A	N/A	39,297[b]		No		
Riverside	N/A	N/A	14,027[b]		No		
Western Farmers Electric Co-op.							
Mooreland	E 9,333	E 2,153	11,486	100.0%	No	Own System (Producers - and Producers Gas Co., - Intrastate)	
Andarko	-	2,011	2,011	100.0%	Yes	Arkansas Louisiana Gas Co. (Interstate)	

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[a] Or Latest Prior Month Available

[b] 1974 Volume From ADR Printout.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliver-ies (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Gulf Coast							
Arkansas							
Arkansas Electric Co-op.							
Fitzhugh	-	726	726	100.0%	No	Arkansas Louisiana Gas Co. (Interstate)	
McClellan	-	3,183	3,183	100.0%	No	See Above	
Bailey	-	960	960	100.0%	No	See Above	
Arkansas Power/Light Co.							
Lynch	-	5,464	5,464	100.0%	No	Arkansas Louisiana Gas Co. (Interstate)	
Ritchie	-	14,342	14,342	100.0%	No	See Above	
Lake Catherine	-	17,442	17,442	100.0%	No	See Above	
Couch	-	E 2,613	E2,613	41.8%	No	Arkansas Louisiana Gas Co. (Interstate)	
	-	E 3,639	E3,639	58.2%	No	Producer	
	-	6,252	6,252	100.0%			
Jonesboro Water & Light							
Jonesboro	N/A	N/A	168	N/A	N/A	N/A	
Louisiana							
Alexandria Mun. Elec. & Gas							
Plant # 2	N/A	N/A	4,547	100.0%	No	Louisiana Intrastate Gas Corp. (Intrastate)	
City of Lafayette Utility System							
Bonin	N/A	N/A	4,748	100.0%	No	Louisiana Intrastate Gas Corp. (Intrastate)	
Rodemacher	N/A	N/A	975	100.0%	No	See Above	
Central Louisiana Electric Co.	-	E 15,457	E15,457	87.7%	No	Louisiana Intrastate Gas Corp. (Intrastate)	Form 423's Show Somewhat Greater Consumption
Teche	E 1,886	E 282	E 2,168	12.3%	No	Producers	
	E 1,886	E 15,639	17,625	100.0%	No		
Coughlin	-	E 16,599	E16,599	98.9%	No	Louisiana Intrastate Gas Corp. (Intrastate)	Only Louisiana Intrastate Now Delivering
		E 185	E 185	1.1%	Yes	Producers	
		16,784	16,784	100.0%			

a/ Or Latest Prior Month Available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

	1973 Gas Purchases						
FRC Region State Electric Utility Plant (1)	Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a] (6)	Suppliers (7)	Notes (8)
Louisiana (continued) Ruston Utility System Steam Plant	-	E 708	E 708	70.0%	Yes	Arkansas-Louisiana Gas Co. (Interstate)	
	-	E 303	E 303	30.0%	Yes	Louisiana Gas Purchasing Company (Intrastate)	
		1,011[c]	1,011[c]	100.0%			
Gulf States Utilities Co. Nelson	23,776	-	23,776	100.0%	No	United Gas Pipeline (Interstate)	
Louisiana #2	10,007	-	10,007	100.0%	No	Monteray Pipeline Co. (Intrastate)	
Louisiana #1	E 4,648	-	4,648	16.5%	Yes	Texaco Inc. (Intrastate)	Expired in 1974; apparently not renewed
	E 17,592	-	17,592	62.4%	No	Producer (via Intrastate Pipeline)	
	E 5,951	-	5,951	21.1%	No	Monteray Pipeline Co. (Intrastate)	
	28,191	-	28,191	100.0%			
Willow Glen	E 17,166	-	17,166	41.3%	No	United Gas Pipeline (Interstate)	
	-	12,261	12,261	29.5%	Yes	Texaco Inc. (Intrastate)	Sugar Bowl Contract Expired in 1974, apparently not renewed. Evidently replaced by short-term interruptible purchase from a producer
	E 9,268	-	9,268	22.3%	Yes	Sugar Bowl Industrial Gas Corp. (Intrastate)	
	E 208	-	208	0.5%	No	Monteray Pipeline (Intrastate)	
	-	E 2,660	2,660	6.4	Yes	Monteray Pipeline (Intrastate)	
	26,642	14,921	41,563	100.0%			
Louisiana Power & Light Sterlington	E 3,575	-	E 3,575	13.9%	No	United Gas Pipeline (Interstate)	Acquired Additional Firm Contracts With Producers in 1974
	E 7,485	-	E 7,485	29.1%	No	Texaco Inc. (Intrastate) and Commerical Solvents (Intrastate[b])	
	E 1,260	-	1,260	4.9%	No	Texas Gas Transmission (Interstate)	
	E 13,401	-	E 13,401	52.1%	No	Louisiana Gas Purchasing Co. (Intrastate)	
	25,721		25,721	100.0%			

a/ Or Latest Prior Month Available
b/ A Portion of Which is Transported by United Gas Pipeline Co.
c/ 1974 Volumes From ADR Printout.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliver-ies (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Louisiana Power & Light (Continued)							
Nine Mile Point	E 7,905	-	E 7,905	10.0%	No	United Gas Pipeline (Interstate)	
	-	E 7,509	E 7,509	9.5%	No	Texaco Inc. (Intrastate)	Acquired New Interruptible Contract With Texaco in 1974
	E 63,632	-	E 63,632	80.5%	No	Texaco Inc. (Intrastate)	
	71,537	E 7,509	79,046	100.0%			
Little Gypsy	63,084	-	E 63,084	99.9%	No	Texaco Inc. (Intrastate)	Acquired New Interruptible Contract With Texaco in 1974
	-	E 64	E 64	0.1%	No	Texaco Inc. (Intrastate)	
	63,084	E 64	63,148	100.0%			
Minder Water & Light							
Minder	-	960	960	100.0%	Yes	Arkansas Louisiana Gas Co. (Interstate)	
New Orleans Public Service							
Michoud	23,102	-	23,102	100.0%	Yes	United Gas Pipeline (Interstate)	
Market St.	1,481	-	1,481	100.0%	Yes	United Gas Pipeline (Interstate)	
Paterson	4,240	-	4,240	100.0%	Yes	United Gas Pipeline (Interstate)	
Monroe Utilities Commission							
Monroe	5,467	-	5,467	100.0%	Yes	Interdepartmental Transfer (United Gas Pipeline-Interstate)	
City of Opelousas							
Opelousas #2	-	1,142	1,142	100.0%	Yes	United Gas Inc. - Entex in 1974- (United Gas Pipeline Co-Interstate)	
Sewer & Water- New Orleans							
Power House # 2	1,785	-	1,785	100.0%	No	United Gas Pipeline (Interstate)	1974 Purchases Shown as Interruptible
Southwestern Electric Power							
Lieberman		E9,146	E9,146	95.8%	No	Arkansas Louisiana Gas Co. (Interstate)	
	E 401	-	E 401	4.2%	No	Producers	
	E 401	E9,146	9,547	100.0%			

a/ Or Latest Prior Month Available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Inter-ruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Louisiana							
Southwestern Electric Pwr. (Cont'd)							
Arsenal Hill	-	3,592	3,592	100.0%	No	Arkansas Louisiana Gas Co. (Interstate)	
City of Natchitoches							
Natchitoches	-	940	940b/	100.0%	Yes	Louisiana Intrastate (Intrastate)	
Mississippi							
Mississippi Power & Light Co.							
Brown	-	E8,085	E8,085	94.4%	No	United Gas Pipeline Co. (Interstate)	
	E480	-	E 480	5.6%	No	Mississippi Fuel Co.	
	E480	E8,085	8,565	100.0%			
Natchez	-	1,601	1,601	100.0%	No	Mississippi Valley Gas Co. (Mid-Louisiana Gas Co. Southern Natural Gas Co., Tennessee Gas Pipeline Co., Texas Eastern Transmission, Texas Gas Transmission and United Gas Pipeline Co. All Interstate)	
Delta	-	E2,065	E 2,065	34.2%	No	Mississippi Valley Gas Co. (See above)	
	-	E3,972	E 3,972	65.8%	No	Texas Gas Transmission (Interstate)	
	-	E 6,037	6,037	100.0%			
Wilson	-	16,871	16,871	100.0%	No	United Gas Pipeline Co. (Interstate)	

a/ Or Latest Prior Month Available
b/ 1974 Volumes From ADR Printout

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

	1973 Gas Purchases						
FRC Region State Electric Utility Plant (1)	Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Mississippi (continued)							
Mississippi Power Co.							
Watson	-	8,320	8,320	100.0%	No	United Gas Pipeline (Interstate)	
Sweatt	2,798	-	2,798	100.0%	No	United Gas Pipeline (Interstate)	
South Mississippi Elec. Pwr. Association							
Moselle	2,997	-	2,997	100.0%	Yes	United Gas Pipeline (Interstate)	New Short-term deliveries From a Producer in 1974
Texas							
Brazor Elec. Power Coop.							
North Texas	-	3,150	3,150	100.0%	No	Southwestern Gas Pipeline Inc. (Intrastate)	Firm in 1974
Miller	-	8,164	8,164	100.0%	No	Southwestern Gas Pipeline Inc. (Intrastate)	
Brownsville Public Utilities							
Brownsville	4,806	-	4,806	100.0%	No	Coastal States Gas Producing Co. (Intrastate)	Interruptible in 1974
Central Power & Light Co.							
LaPalma	11,811	-	11,811	100.0%	No	Lo Vaca Gathering & Coastal States Gas Producers (Intrastate)	
Joslin	11,291	-	11,291	100.0%	No	Lo Vaca Gathering & Coastal States Gas Prod. (Intrastate)	
Victoria	E8,452	-	E8,452	36.3%	No	Houston Pipeline Co. (Intrastate)	
	E14,831	-	E14,831	63.7%	No	Lo Vaca Gathering Co. & Coastal States Gas Prod. (Intrastate)	
	E23,283	-	23,283	100.0%			

a/ Or Latest Prior Month Available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Texas							
Central Power & Light Co. (cont'd)							
Nueces Bay	E3,162	-	E3,162	16.0%	No	Houston Pipeline Co. (Intrastate)	
	E16,543	-	E16,543	83.7%	No	Lo Vaca Gathering Co. & Coastal States Gas Prod. (Intrastate)	
	E59	-	E59	0.3%	No	Exxon Co. (Intrastate)	
	19,765		19,765	100.0%			
Laredo	4,222	-	4,222	100.0%	No	Delhi Gas Pipeline (Intrastate)	
Bates	8,697	-	8,697	100.0%	No	Lo Vaca Gathering Co. & Coastal States Gas Prod. (Intrastate)	New Firm Contract with Tegas Gas Corp in 1974
Hill	E5,181	-	E5,181	27.1%	No	Houston Pipeline Co. (Intrastate)	
	E11,414	-	E11,414	59.7%	No	Lo Vaca Gathering Co. & Coastal States Gas Prod. (Intrastate)	
	E2,333	-	E2,333	12.2%	No	Exxon Co. (Intrastate)	
	E191	-	E191	1.0%	No	Tegas Oil Co. (Intrastate)	
	19,119		19,119	100.0%			
Davis	10,845b/	-	10,845b/	100.0%	No	Lo Vaca Gathering Co. & Coastal States Gas Prod. and Delhi Gas Pipeline (All Intrastate)	
Bryan Mun. Elec. System							
Bryan	N/A	N/A	E3,972	87.2%	No	Lone Star Gas Co. (Intrastate)	New Firm Contract, with Delhi Gas Pipeline in 1974
	N/A	N/A	E583	12.8%	No	Producers	
			E4,555	100.0%			

a/ Or Latest Prior Month Available
b/ 1974 Volume From ADR Printout.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a/] (6)	Suppliers (7)	Notes (8)
Texas (continued)							
City of Austin							
Decker Creek	12,709	-	12,709	100.0%	No	Coastal States Gas Producing Company (Intrastate)	
Seaholm	3,600	-	3,600	100.0%	No	See Above	
Holly St.	8,892	-	8,892	100.0%	No	See Above	
City Public Service Board of San Antonio							
O.W. Sommers	11,432	-	11,432	100.0%	No	Coastal States Gas Producing Company (Intrastate)	
Mission Road	2,335	-	2,335	100.0%	No	See Above	
Leon Creek	954	-	954	100.0%	No	See Above	
Tuttle	7,730	-	7,730	100.0%	No	See Above	
Braunig	29,067	-	29,067	100.0%	No	See Above	
Dallas Power & Light Co.							
Dallas	4,601	-	4,601	100.0%	No	Lone Star Gas Co. (Intrastate)	
Mountain Creek	37,103	-	37,103	100.0%	No	See Above	
North Lake	23,758	-	23,758	100.0%	No	See Above	
Hubbard	10,449	-	10,449	100.0%	No	See Above	
Parkdale	7,675	-	7,675	100.0%	No	See Above	
Denton Mun. Utilities							
Denton	-	E3,453	E3,453	77.1%	No	Lone Star Gas Co. (Intrastate)	
	-	E1,026	E1,026	22.9%	Yes	Producer	
		4,479	4,479	100.0%			
El Paso Elect. Co.							
Newman	E13,858	-	E13,858	77.3%	Yes	Purchased from Pioneer Nat. Gas Co. (Intrastate) and Transported by El Paso Natural Gas (Interstate)	All Interruptible in 1974
		E4,069	E 4,069	22.7%	No		
	-		17,927	100.0%			
	E13,858	E4,069					

a/ Or Latest Prior Month Available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Texas (continued)							
Gulf States Utilities							
Sabine	47,881	-	47,881	100.0%	No	Exxon Co. (Intrastate)	
Lewis Creek	E21,576	-	E21,576	75.5%	No	Exxon Co. (Intrastate)	
	E 7,001	-	E 7,001	24.5%	No	Texas Intrastate Gas Co. (Intrastate)	
	28,577		28,577	100.0%			
Neches	25,712	-	25,712	100.0%	No	Exxon Co. (Intrastate)	
Houston Lighting & Power							
Bertron	E13,526	-	E13,526	32.6%	No	Pennzoil Pipeline Co.b/ (Intrastate)	
	E 4,439	-	E 4,439	10.7%	Yes	Houston Pipeline Co. (Intrastate)	
	E23,524	-	E23,524	56.7%	No	Exxon Co. (Intrastate)	
	41,489	-	41,489	100.0%			
Robinson	E44,038	-	E44,038	48.5%	No	Pennzoil Pipeline Co.b/ (Intrastate)	
	E46,762	-	E46,762	51.5%	No	Exxon Co. (Intrastate)	
			90,800	100.0%			
Parish	E30,750	-	E30,750	51.2%	No	Pennzoil Pipeline Co.b/ (Intrastate)	
	E 60	-	60	0.1	Yes	Houston Pipeline Co. (Intrastate)	
	E29,249	-	29,249	48.7	No	Exxon Co. (Intrastate)	
	60,059		60,059	100.0%			
Wharton	E7,156	-	E7,156	49.0%	No	Pennzoil Pipeline Co.b/ (Intrastate)	
	E7,449	-	E7,449	51.0%	No	Exxon Co. (Intrastate)	
	14,605		14,605	100.0%			

a/ Or Latest Prior Month Available
b/ Name changed to United Texas Transmission.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a] (6)	Suppliers (7)	Notes (8)
Texas (Continued)							
Houston Lighting & Power							
Clark	2,211	-	2,211	100.0%	No	Pennzoil Pipeline Co.[b]	
Greens Bayou	E9,498	-	E9,498	48.5%	No	Pennzoil Pipeline Co.[b] (Intrastate)	
	E10,085	-	E10,085	51.5%	No	Exxon Co. (Intrastate)	
	19,583		19,583	100.0%			
Webster	E13,487	-	E13,487	49.0%	No	Pennzoil Pipeline Co.[b] (Intrastate)	
	E14,037	-	E14,037	51.0%	No	Exxon Co. (Intrastate)	
	27,524		27,524	100.0%			
Deepwater	E10,264	-	E10,264	80.1%	No	Pennzoil Pipeline Co.[b] (Intrastate)	
	E 2,550	-	E 2,550	19.9%	Yes	Houston Pipeline Co. (Intrastate)	
	12,814	-	12,814	100.0%			
Cedar Bayou	E40,052	-	E40,052	47.5%	No	Pennzoil Pipeline Co.[b] (Intrastate)	
	E44,268	-	E44,268	52.5%	No	Exxon Co. (Intrastate)	
	84,320	-	84,320	100.0%			
Garland Mun. Power & Light							
Olinger	-	E 6,535	E 6,535	89.7%	Yes	Lone Star Gas Co. (Intrastate)	Expired in 1974
	E 729	-	E 729	10.0%	Yes	Producer	
	-	E22	E 22	0.3%	No	Producer	
	E 729	E 6,557	7,286	100.0%			
Newman	-	1,753	1,753	100.0%	Yes	Lone Star Gas Co. (Intrastate)	
Lubbock Power & Light							
Holly Ave.	-	3,305	3,305	100.0%	Yes	Pioneer Natural Gas Co. (Intrastate)	
Station #2	-	4,053	4,053	100.0%	Yes	Pioneer Natural Gas Co. (Intrastate)	

a/ Or Latest Prior Month Available
b/ Name changed to United Texas Transmission.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Texas (Continued)							
Lower Colorado River Authority							
Gideon	25,312	-	25,312	100.0%	No	Coastal States Gas Producing Co. (Intrastate)	New Short-term Contract with Delhi Gas PipeLine in 1974
Granite Shoal	5,337b/	-	5,337b/	100.0%	No	Coastal States Gas Producing Co. (Intrastate)	
Comal	-	11	11	100.0%	Yes	Lo Vaca Gathering Co. (Intrastate)	
Medina Elec. Co-op.							
Pearsall	4,338	-	4,338	100.0%	No	Lo Vaca Gathering Co. (Intrastate)	
Southwestern Pub. Service Co.							
Riverview	2,470	-	2,470	100.0%	No	Producer	
Plant X	-	E19,972	E19,972	94.8%	No	El Paso Natural Gas Co. (Interstate)	
	-	E 1,096	E 1,096	5.2%	No	Producer	
		21,068	21,068	100.0%			
Jones	-	11,465	11,465	100.0%	No	Pioneer Natural Gas Co. (Intrastate)	
Nichols	-	E3,404	E3,404	17.4%	No	Pioneer Natural Gas Co. (Intrastate)	
		E16,160	E16,160	82.6%	No	Diamond Shamrock Corp. (Intrastate)	
		19,564	19,564	100.0%			
Moore County	-	3,154	3,154	100.0%	No	Diamond Shamrock Corp. (Intrastate)	
East Plant	-	6,730	6,730	100.0%	No	Pioneer Natural Gas Co. (Intrastate)	
Denver City	7,243	-	7,243	100.0%	Yes	Shell Oil Co. (Intrastate)	
Texas Elec. Service Co.							
Morgan Creek	E41,501	-	E41,501	99.0%	No	Odessa Natural Corp. (Intrastate)	
	E 419	-	E 419	1.0%	No	Lone Star Gas Co. (Intrastate)	
	41,920		41,920	100.0%			
North Main	E 3,170	-	E 3,170	88.6%	No	Old Ocean Fuel Co. (Intrastate)	
	E 3		E 3	0.1%	No	Producer	
	E 361	-	E 361	10.1%	No	Texas Utilities Fuel Co. (Intrastate)	
	E 43	-	E 43	1.2%	No	Odessa Natural Corp. (Intrastate)	
	E 1	-	E 1	n/	No	Ravenswood Gas Co. (Intrastate)	
	3,578		3,578	100.0%			

a/ Or Latest Prior Month Available
b/ 1974 volume from ADR printout, plant began operation in 1974.
n/ Negligible

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FPC Region State Electric Utility Plant (1)	1973 Gas Purchases: Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74) a/ (6)	Suppliers (7)	Notes (8)
Texas (continued)							
Texas Elec. Service Co.							
Handley	E22,102	-	E22,102	89.8%	No	Old Ocean Fuel Co. (Intrastate)	
	E 13	-	E 13	0.1%	No	Producer	
	E 2,215	-	E 2,215	9.0%	No	Texas Utilities Fuel Co. (Intrastate)	
	E 271	-	E 271	1.1%	No	Odessa Natural Corp. (Intrastate)	
	E 5	-	E 5	n/	No	Ravenwood Gas Co. (Intrastate)	
	24,606		24,606	100.0%			
Graham	E22,712	-	E22,712	88.7%	No	Old Ocean Fuel Co. (Intrastate)	
	E 14	-	E 14	n/	No	Producer	
	E 2,563	-	E 2,563	10.0%	No	Texas Utilities Fuel Co. (Intrastate)	
	E 333	-	E 333	1.3%	No	Odessa Natural Corp. (Intrastate)	
	E 6	-	E 6	n/	No	Ravenswood Gas Co. (Intrastate)	
	25,628		25,628	100.0%			
Eagle Mountain	E15,918	-	E15,918	92.7%	No	Old Ocean Fuel Co. (Intrastate)	
	E 7	-	E 7	n/	No	Producer	
	E 1,117	-	E 1,117	6.5%	No	Texas Utilities Fuel Co. (Intrastate)	
	137	-	E 137	0.8%	No	Odessa Natural Corp. (Intrastate)	
	17,180	-	17,180	100.0%			
Permian Basin	E 6,923	-	E 6,923	63.1%	No	Lo-Vaca Gathering Co. (Intrastate)	
	E 4,048	-	E 4,048	36.9%	No	Texas Utility Fuel Co. (Intrastate)	
	10,971	-	10,971	100.0%			
Wichita Falls	64	-	64	100.0%	Yes	Lone Star Gas Co. (Intrastate)	

a/ Or Latest Prior Month Available
n/ Negligible

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliver-ies (5)	Contract Expires Within 24 Mos. (As of 12/74)[a/] (6)	Suppliers (7)	Notes (8)
Texas (continued)							
Texas Power & Light Co.							
Collin	6,352	-	6,352	N/A	No	Bi-Stone Fuel Co., Texas Utilities Fuel Co. (both Intrastate)[c/]	
Lake Creek	19,987	-	19,987	N/A	No	See Above	
River Crest	-	12,488	12,488	N/A	No	Lone Star Gas Co. (Intrastate)[c/]	
Valley	N/A	N/A	31,750	N/A	No	Bi-Stone Fuel Co., Tex. Utilities Fuel Co., Lone Star Gas Co. (All Intrastate) c/	
Trinidad	16,393	-	16,393	N/A	No	Bi-Stone Fuel Co., Texas Utilities Fuel Co. (Both Intrastate)[c/]	
Tradinghouse Creek	N/A	N/A	44,198	N/A	No	Bi-Stone Fuel Co., Tex. Utilities Fuel Co., Lone Star Gas Co. (All Intrastate) c/	
Stryker Creek	30,691	-	30,691	N/A	No	Bi-Stone Fuel Co., Exxon Co. (Both Intrastate) c/	
West Texas Utilities Co.							
Abilene	166	-	166	100.0%	No	Lone Star Gas Co. (Intrastate)	Contract Now Interruptible
Concho	1,123	-	1,123	100.0%	No	See Above	See Above
Lake Pauline	2,370	-	2,370	100.0%	No	See Above	See Above
Fort Phantom - 1	E4,027	E1,206	5,233[b/]	100.0%	No	See Above	See Above
San Angelo	4,545	-	4,545	100.0%	No	See Above	See Above
Oak Creek	4,182	-	4,182	100.0%	No	See Above	See Above
Paint Creek	9,494	-	9,494	100.0%	No	See Above	See Above
Rio Pecos	9,108	-	9,108	100.0%	No	Producers	

a/ Or Latest Prior Month Available
b/ 1974 Volumes from ADR Printout
c/ 423 data limited. There may be more suppliers than those listed.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a] (6)	Suppliers (7)	Notes (8)
Texas (continued)							
Greenville Electric Dept.							
Greenville	-	1,216[b]	1,216[b]	100.0%	No	Lone Star Gas Co. (Intrastate) And Producer	
Southwestern Electric Power Co.							
Knox Lee Power Plant	8,753	-	8,753	76.1%	No	Exxon Co. (Intrastate)	
	2,749	-	2,749	23.9%	No	Western Gas Corp. (Intrastate)	
	11,502		11,502	100.0%			
Lone Star Power Plant	2,413	-	2,413	100.0%	No	Exxon Co. (Intrastate)	Contract Now With Delhi, Gas Pipeline
Wilkes	31,632	-	31,632	63.8%	No	Exxon Co. (Intrastate)	
	17,948	-	17,948	36.2%	No	Delhi Gas Pipeline Corp. (Intrastate)	
	49,580		49,580	100.0%			

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[a] Or Latest Prior Month Available
[b] 1974 volumes from ADR printout.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Inter-ruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Rocky Mountain							
Colorado							
Colorado Springs Dept. of Pub Utilities							
Drake	33	6,488	6,521	100.0%	No	Colorado Interstate Gas Co. (Interstate)	
Birdsall	E1,648	E1,635	3,283	100.0%	No	See above	
Central Telephone & Utilities Corp.							
Pueblo	-	3,568	3,568	100.0%	No	Public Service Company of Colorado (Colorado Interstate Co.- Interstate)	
Clark	E1,911	E 770	2,681	100.0%	No	Greeley Gas Co. (Western Slope Gas Co.- Colorado Interstate Gas Co. - Interstate)	
Lamar Utilities Board							
Lamar	N/A	N/A	1,053b/	100.0%	N/A	Peoples Division, Northern Natural Gas Co. (Colorado Interstate Gas Co. Interstate)	
Public Service Co. of Colorado							
Arapahoe	415	8,076	8,491	100.0%	Yes	Colorado Interstate Gas Co. (Interstate)	
Cherokee	2,311	10,419	12,730	100.0%	Yes	Colorado Interstate Gas Co. (Interstate)	
Cameo	-	2,503	2,503	100.0%	No	Western Slopes Gas Co. (Colorado Interstate Gas Co. Interstate)	
Valmont	-	6,412	6,412	100.0%	No	Western Slope Gas Co. (Colorado) Interstate Gas Co.- Interstate)	
Zuni	7,209.6	147	7,431		Yes	Colorado Interstate Gas Co. (Interstate)	
Comanchec/	-	7	7	100.0%	No	Colo. Interstate Gas Co. (Interstate)	

a/ Or Latest Prior Month Available
b/ From Steam Electric Plant Factors.
c/ New plant placed in operation in 1973.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Inter-ruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Colorado							
Public Service Co. of Colorado (continued)							
Alamosa	-	272	272b/	100.0%	No	Interdepartmental Transfer (Colorado Interstate Gas Co.-Interstate)	
Montana							
Montana Dakota Utilities							
Lewis & Clark	-	44	44	100.0%	No	Interdepartmental Transfer (Intrastate)	
Montana Power Company							
Corrette	-	433	433	100.0%	No	Interdepartmental Transfer (Own Production) (Intrastate)	
Bird	-	401	401	100.0%	No	Interdepartmental Transfer (Own Production) (Intrastate)	Standby Station
Utah							
Utah Power & Light							
Jordan	-	1,126	1,126	100.0%	No	Mountain Fuel Supply (Own Production and Various Producers-Intrastate, El Paso Natural Gas Co.c/-Interstate, Cascade Natural Gas Corp.-Interstate)	
Hale	-	180	180	100.0%	No		
Gadsby	-	2,480	2,480	100.0%	No		
Arizona							
Arizona Public Service Co.							
Saguaro	4,288	-	4,288	100.0%	No.	El Paso Natural Gas Co. (Interstate)	
Phoenix	1,218	-	1,218	100.0%	No	El Paso Natural Gas Co. (Interstate)	
Ocotillo	5,343	-	5,343	100.0%	No	El Paso Natural Gas Co. (Interstate)	
Cholla	-	-	20b/	100.0%	No	Southern Union Gas Co. (El Paso Natural Gas Co.-Interstate)	
Yucca	2,548	-	2,548	100.0%	No	El Paso Natural Gas Co. (Interstate)	
Arizona Electric Power Cooperative, Inc.							
Apache	3,842	-	3,842	100.0%	No	El Paso Natural Gas Co. (Interstate)	
Salt River Project							
Kyrene	-	2,844	2,844	100.0%	No	El Paso Natural Gas Co. (Interstate)	

a/ Or Latest Prior Month Available
b/ From Steam Electric Plant Factors.
c/ Northwest Pipeline Corp. since divestiture by El Paso.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases: Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
Arizona							
Salt River Project (continued)							
Cross Cut	-	818	818	100.0%	No	El Paso Natural Gas Co. (Interstate)	
Agua Fria	-	8,923	8,923	100.0%	No	El Paso Natural Gas Co. (Interstate)	
Tucson Gas & Electric Co.							
Irvington	12,647	-	12,647	100.0%	No	El Paso Natural Gas Co. (Interstate)	
De Moss Petrie	4,220	-	4,220	100.0%	No	El Paso Natural Gas Co. (Interstate)	
California							
Burbank Public Service Dept.							
Burbank	-	1,773	1,773	100.0%	No	Southern California Gas Co. (El Paso Natural Gas Co., Transwestern Pipeline Co. - both Interstate, Federal Offshore Producers, and Local California Producers)	
City of Glendale	-	1,755	1,755	100.0%	No	Southern California Gas Co. (See Above)	
Imperial Irrigation Dist. - El Centro	-	5,284	5,284	100.0%	No	Southern California Gas Co. (See Above)	
Southern Calif. Edison							
San Bernadino	-	6,519	6,519	100.0%	No	Southern Calif. Gas Co. (see above)	
Etiwanda	-	9,530	9,530	100.0%	No	Southern Calif. Gas Co. (see above)	
Redondo Beach	-	40,434	40,434	95.7%	No	Southern Calif. Gas Co. (see above)	
	-	1,606	1,606	4.3%	No	Producers	
		42,040	42,040	100.0%			

a/ Or Latest Prior Month Available.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Inter-ruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
California							
Southern California Edison							
(continued)							
Mandalay	-	6,752	6,752	99.4%	No	Producer	
	-	30	30	0.6%	No	So. Calif. Gas Co. (See Above)	
	-	6,782	6,782	100.0%			
Highgrove	-	155	155	100.0%	No	So. Calif. Gas Co. (See Above)	
Alamitos Bay	-	11,681	11,681	77.5%	No	So. Calif. Gas Co. (See Above)	
	-	22	22	.2%	No	Producer	
	-	7	7	.1%	No	Producer	
	-	3,214	3,214	21.3%	No	City of Long Beach (Southern California Gas Co.)	
	-	108	108	.7%	No	Producer	
	-	32	32	.2%	No	Producer	
	-	15,064	15,064	100.0%			
El Segundo	-	3,173	3,173	99.5%	No	So. Calif. Gas Co. (See Above)	
	-	15	15	0.5%	No	Producer	
	-	3,188	3,188	100.0%			
Cool Water	-	10,267	10,267	100.0%	No	Pacific Gas & Electric Co. (El Paso Natural Gas Co., Pacific Gas Transmission Co.- Both Interstate) (Local Calif. Producers)	
Ormond Beach	-	10,425	10,425	96.4%	No	So. Calif. Gas Co. (See Above)	
	-	383	383	3.6%	No	Producer	
	-	10,808	10,808	100.0%			
Long Beach	-	37	37	100.0%	No	So. Calif. Gas Co. (See Above)	
Huntington Beach	-	8,394	8,394	81.2%	No	So. Calif. Gas Co. (See Above)	
	-	10	10	.1%	No	Producer	
	-	1,931	1,931	18.7%	No	City of Long Beach (Southern Calif. Gas Co.)	
	-	1	1	n/	No	Producer	
	-	10,336	10,336	100.0%			

a/ Or Latest Prior Month Available
n/ Negligible.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	 Interruptible (MMcf) (3)	 Total (MMcf) (4)	 Supplier's Percent of Total 1973 Gas Deliveries (5)	 Contract Expires Within 24 Mos. (As of 12/74)a/ (6)	Suppliers (7)	Notes (8)
California (continued)							
Pacific Gas & Electric							
Kern	-	60	60	100.0%	No	Interdepartmental Transfer (El Paso Natural Gas Co., Pacific Gas Transmission Co., Canadian Imports - All Interstate, Local California Producers)	
Hunters Point	-	16,667	16,667	100.0%	No		
Humboldt Bay	-	3,385	3,385	100.0%	No		
Contra Costa	-	40,241	40,241	100.0%	No		
Avon	-	440	440	100.0%	No		
Martinez	-	2,496	2,496	100.0%	No		
Morro Bay	-	35,965	35,965	100.0%	No		
Potrero	-	13,629	13,829	100.0%	No		
Pittsburg	-	70,077	70,077	100.0%	No		
Oleum	-	4,872	4,872	100.0%	No		
Moss Landing	-	65,089	65,089	100.0%	No		
San Diego Gas & Elec. Co.							
Station B	-	874	874	100.0%	No	Southern Calif. Gas Co. (El Paso Natural Gas Co., Transwestern Pipeline Co. - Both Interstate, Federal Offshore Producers and Local Calif. Producers)	
South Bay	-	14,054	14,054	100.0%	No		
Silver Gate	-	4,966	4,966	100.0%	No		
Encina	-	2,554	2,554	100.0%	No		
Los Angeles Dept. of Water Power							
Haynes	-	12,032	12,032	100.0%	No	Southern Calif. Gas Co. (See Above)	
Scattergood	-	8,714	8,714	100.0%	No	Southern Calif. Gas Co. (See Above)	
Valley	-	17,809	17,809	100.0%	No	Southern Calif. Gas Co. (See Above)	
Harbor	-	1,830	1,830	100.0%	No	Southern Calif. Gas Co. (See Above)	
Pasadena Water/Power Dept.							
Glenarm	-	221	221	100.0%	No	Southern Calif. Gas Co. (See Above)	
Broadway	-	1,887	1,887	100.0%	No	Southern Calif. Gas Co. (See Above)	

a/ Or Latest Prior Month Available

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a] (6)	Suppliers (7)	Notes (8)
New Mexico							
Arizona Public Service Co. Four Corners	-	-	1,678[b]	100.0%	No		
Farmington Electric Utility Animas	1,364	-	1,364	100.0%	No	Producer	
Community Public Service Co. Lordsburg	-	2,821	2,821	100.0%	No	City of Lordsburg (El Paso Natural Gas Co. - Interstate)	
El Paso Electric Co. Rio Grande	9,152	-	9,152	100.0%	No	El Paso Natural Gas Co. - (Interstate)	
Lea County Electric Co-op, Inc. Lovington	-	2,300	2,300	100.0%	No	Southern Union Gas Co. (Wellhead purchases and non-affiliated pipelines)	
New Mexico Electric Service Co. Maddox	-	4,683	4,683	100.0%	No	Producer	
Plains Electric G&T Co-op., Inc. Algodones	-	3,548	3,548	100.0%	Yes	Southern Union Gas Co. (Various producers and Company Production)	
Public Service Co. of N.M. Person	-	5,294	5,294	100.0%	No	Southern Union Gas Co. (See above)	
Reeves Station	-	11,568	11,568	100.0%	No	Southern Union Gas Co. (See above)	
Prager	-	770	770	100.0%	No	Southern Union Gas Co. (See above)	

[a] Or Latest Prior Month Available.
[b] Steam Electric Plant Factors. Source of Supply Unknown.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74)[a] (6)	Suppliers (7)	Notes (8)
New Mexico (Continued)							
Southwestern Public Service Co.							
Roswell	-	1,208	1,208	100.0%	No	Southern Union Gas Company - (See Below)	
Cunningham	-	6,653	6,653	37.5%	No[b]	Southern Union Gas Company - (See Below)	
	-	1,236	1,236	7.0%	No	Hondo Oil and Gas Co. (Producer)	
	-	9,846	9,846	55.5%	No	Hanagan Petroleum Corp. (Producer)	
	-	17,735	17,735	100.0%			
Carlsbad	-	1,736	1,736	100.0%	No	Southern Union Gas Co.	
						Southern Union Gathering Co., Wellhead Purchases and Gasoline Plants, and Other Suppliers; Also Field Purchases From Southern Union Production Co. and Others).	
Nevada							
Nevada Power Co.							
Clark	12,925	-	12,925	100.0%	No	Southwest Gas Corp. (El Paso	
Sunrise	4,412	-	4,412	100.0%	No	Natural Gas Co. - Interstate)	
Southern California Edison - Mohave	-	4,597	4,597	100.0%	No	Southwest Gas Corp. (See Above)	
Sierra Pacific Power							
Tracy	2,230	581	2,811	100.0%	No	Southwest Gas Corp. (See Above)[c]	Two Firm Contracts, one Interruptible
Churchill	11,197	3,241	14,438	100.0%	No	Southwest Gas Corp. (See Above)[c]	Two Firm Contracts, One Interruptible

[a] Or Latest Prior Month Available
[b] Also A Firm Contract With Tuco, Inc. (Volume Not Specified).
[c] Northwest Pipeline Corp. Since Divestiture by El Paso.

NATURAL GAS CONSUMPTION AND SOURCES OF GAS SUPPLY BY INDIVIDUAL STEAM-ELECTRIC PLANTS

FRC Region State Electric Utility Plant (1)	1973 Gas Purchases: Firm (MMcf) (2)	Interruptible (MMcf) (3)	Total (MMcf) (4)	Supplier's Percent of Total 1973 Gas Deliveries (5)	Contract Expires Within 24 Mos. (As of 12/74) a/ (6)	Suppliers (7)	Notes (8)
Pacific Northwest							
Oregon							
Pacific Power & Light Lincoln	-	1,855	1,855	100.0%		Northwest Natural Gas Co. b/ (El Paso Natural Gas Co. - Interstate)	Year-to-Year Contract, Terminable on 12 Months Notice. Plant For Voltage Control & Emergency Use Only.
Portland General Elect. Co. Station L	564	-	564	100.0%		Northwest Natural Gas Co. b/ (El Paso Natural Gas Co. - Interstate)	Firm Contract Starting in Sept. Until Commercial Operation of Gas Turbines Begins. Intermittent operation - plant on "cold stand-by".

a/ Or Latest Prior Month Available.
b/ Northwest Pipeline Corp. Since Divestiture by El Paso.

Note: Data excludes refinery and blast furnace gas.

N/A = Not Available.
n/ = Negligible.
E = Estimated.

Source: Columns (1) and (4) - provided by EPA, except for noted exceptions
Columns (2) (3) (5) and (6) - Form 423's Filed With the FPC by Electric Utilities
Column (7) - Form 423's Browns Directory of North American Gas Companies, Form 2 Annual Reports filed with the FPC By Interstate Pipeline Companies, Moody's Utility Manual, and Annual Reports to Stockholders.

Schedule I-3

SUMMARY OF ELECTRIC UTILITY PURCHASES OF NATURAL GAS BY TYPE OF SUPPLIER
1973

(Billions of Cubic Feet)

Region State	From Interstate Pipelines: Inter-departmental Transfers (1)	From Interstate Pipelines: Direct Purchase (2)	From Interstate Pipelines: Indirect Purchase (3)	From Intrastate Pipelines: Inter-departmental Transfers (4)	From Intrastate Pipelines: Direct Purchase (5)	From Intrastate Pipelines: Indirect Purchase (6)	From Producers (7)	Other (8)	Total (9)
New England	1.8	--	3.8	--	--	--	--	--	5.6
Massachusetts	1.8	--	3.3	--	--	--	--	--	5.1
Rhode Island	--	--	n/	--	--	--	--	--	n/
Vermont	--	--	0.5a/	--	--	--	--	--	0.5a/
Appalachian	78.3	--	5.5	--	--	--	--	--	83.8
Delaware	0.6	--	0.2	--	--	--	--	--	0.8
Kentucky	7.7	--	--	--	--	--	--	--	7.7
New Jersey	13.3	--	4.4	--	--	--	--	--	17.7
New York	46.8	--	--	--	--	--	--	--	46.8
Ohio	6.6	--	0.9	--	--	--	--	--	7.5
Pennsylvania	2.0	--	--	--	--	--	--	--	2.0
Virginia	1.3	--	--	--	--	--	--	--	1.3
Southeast	--	33.9	55.3	--	--	--	110.1	--	199.3
Alabama	--	0.8	1.5	--	--	--	--	--	2.3
Florida	--	33.1	2.7	--	--	--	110.1	--	145.9
Georgia	--	--	30.2	--	--	--	--	--	30.2
North Carolina	--	--	0.9	--	--	--	--	--	0.9
South Carolina	--	--	6.3	--	--	--	--	--	6.3
Tennessee	--	--	13.7	--	--	--	--	--	13.7
Great Lakes	21.7	2.7	63.6	--	--	--	--	--	88.0
Illinois	4.8	1.6	24.8	--	--	--	--	--	31.2
Indiana	6.8	--	0.1	--	--	--	--	--	6.9
Michigan	--	--	30.5d/	--	--	--	--	--	30.5
Wisconsin	10.1	1.1	8.2	--	--	--	--	--	19.4
Northern Plains	60.6	21.5	60.5	--	--	--	--	--	142.6
Iowa	40.4	2.9	7.8	--	--	--	--	--	51.1
Minnesota	20.2	1.3	21.2	--	--	--	--	--	42.7
Nebraska	--	17.3	28.9	--	--	--	--	--	46.2
South Dakota	--	--	2.6	--	--	--	--	--	2.6
Mid Continent	2.7	81.9	65.4	15.7	298.1	7.9	3.5	--	475.2
Kansas	2.1	69.6	28.3	15.7	29.3	7.9	3.5	--	156.4
Missouri	0.6	10.3	37.1	--	--	--	--	--	48.0
Oklahoma	--	2.0	--	--	268.8b/	--	--	--	270.8
Gulf Coast	5.5	205.7	5.2	--	1,496.4	--	29.9	0.2	1,742.9
Arkansas	--	44.7	--	--	--	--	3.6	0.2c/	48.5
Louisiana	5.5	98.0	1.1	--	244.5	--	20.3	--	369.4
Mississippi	--	43.0	4.1	--	--	--	--	--	47.1
Texas	--	20.0	--	--	1,251.9	--	6.0	--	1,277.9
Rocky Mountain	0.3	38.5	17.1	0.9	2.8	--	--	--	59.6
Colorado	0.3	38.5	16.2	--	--	--	--	--	55.0
Montana	--	--	--	0.9	--	--	--	--	0.9
Utah	--	--	0.9	--	2.8	--	--	--	3.7
Pacific Southwest	193.4	55.9	210.5	59.7	33.1	11.1	26.0	1.7	591.4
Arizona	--	46.7	n/	--	--	--	--	--	46.7
California	193.4	--	168.5	59.7	--	11.1	8.9	--	441.6
Nevada	--	--	39.2	--	--	--	--	--	39.2
New Mexico	--	9.2	2.8	--	33.1	--	17.1	1.7c/	63.9
Pacific Northwest	--	--	2.4	--	--	--	--	--	2.4
Oregon	--	--	2.4	--	--	--	--	--	2.4
Total United States	364.3	440.1	489.3	76.3	1,830.4	19.0	169.5	1.9	3,390.8

Note: Data excludes refinery and blast furnace gas.

a/ Canadian imports.

b/ 261.6 of the 268.8 Bcf burned in Oklahoma was in plants which were supplied partially or totally by systems owned and operated by the plants parent company.

c/ Further breakdown not obtainable.

d/ A small amount of gas burned by electric utilities in Michigan was produced within that state. The exact amount of this intrastate gas is not known, but is estimated to be less than 5 percent of the states total consumption for 1973 since only 47.8 Bcf was produced in Michigan in 1973, about 5.2 percent of the states total gas consumption in 1973 (906 Bcf).

n/ Negligible.

Source: Schedule I-[illegible]

Schedule II-1

PIPELINE FIRM GAS SERVICE CURTAILMENTS
CALENDAR YEARS 1970 THROUGH 1974

Future Requirements Committee Region (1)	Pipeline Company (2)	Annual Firm Gas Requirements (3)	Firm Gas Curtailments									
			Billions of Cubic Feet					Percent of Annual Firm Requirements				
			1970 (4)	1971 (5)	1972 (6)	1973 (7)	1974 (8)	1970 (9)	1971 (10)	1972 (11)	1973 (12)	1974 (13)
1	Algonquin Gas Transmission	161.00	--	0.60	5.19	6.69	12.73	--	0.4	3.2	4.2	7.9
6,7	Arkansas Louisiana Gas	535.10	9.96	70.97	121.37	163.68	164.88	1.86	13.3	22.7	30.6	30.8
5,6,7	Cities Service Gas Co.	561.67	--	--	--	6.98	70.00	--	--	--	1.2	12.5
6,7,8	Colorado Interstate Gas	369.43	--	--	--	--	0.07	--	--	--	--	--
2	Columbia Gas Transmission	1,345.96	--	--	--	--	66.08	--	--	--	--	4.9
2	Eastern Shore Natural Gas	11.19	--	0.03	--	0.01	0.36	--	0.3	--	0.1	3.2
7,9	El Paso Natural Gas	1,437.79	--	4.91	27.58	119.94	152.33	--	0.3	1.9	8.3	10.6
7	Louisiana-Nevada Transit	4.81	0.7	0.18	0.53	0.33	0.19	1.4	3.8	11.0	6.9	4.0
7	Mid Louisiana Gas	31.23	0.03	--	--	0.31	1.14	0.1	--	--	1.0	3.7
4,6,7	Mississippi River Transmission	202.90	--	--	3.56	7.52	0.97	--	--	1.8	3.7	0.5
4,5	Natural Gas Pipeline Co. of America	1,192.73	--	90.64	145.49	228.44	208.46	--	7.6	12.2	19.2	17.5
4,5,6	Northern Natural Gas	817.52	--	0.38	4.14	9.05	15.06	--	--	0.5	1.1	1.8
8,10	Northwest Pipeline	246.92	--	--	--	--	17.38	--	--	--	--	7.0
4,6	Panhandle Eastern Pipe Line	814.13	--	--	5.70	26.05	61.80	--	--	0.7	3.2	7.6
9	Southwest Gas Corp.	56.2	--	--	--	--	1.12	--	--	-	--	--
1,2,3,6,7	Tennessee Gas Pipeline	1,346.86	--	--	--	--	41.04	--	--	--	--	3.0
2,3,4	Texas Eastern Transmission	1,073.32	--	4.17	76.52	133.74	207.79	--	0.4	7.1	12.5	19.4
2,3,4	Texas Gas Transmission	731.74	--	--	--	--	25.17	--	--	--	--	3.4
2,3	Transcontinental Gas Pipe Line	1,085.74	1.94	65.79	89.37	137.84	258.54	0.2	6.1	8.2	12.7	23.8
6,7,9	Transwestern Pipe Line	365.01	--	--	--	2.22	44.26	--	--	--	0.6	12.1
2,4,7	Trunkline Gas	591.64	--	7.39	57.47	144.15	218.68	--	1.2	9.7	24.4	37.0
3,7	United Gas Pipe Line	1,563.74	8.57	105.86	373.74	505.36	606.34	0.5	6.8	23.9	32.3	38.8
	Total	14,490.43	20.57	350.92	910.66	1,492.31	2,174.39	0.1	2.4	6.3	10.3	15.0
	Inter-company pipeline curtailments	2,124.00[a/]	3.03	64.52	261.24	358.95	495.70	0.1	3.0	12.3	16.9	23.3
	Curtailments to other customers	12,366.43	17.54	286.40	649.43	1,133.36	1,678.69	0.1	2.3	5.3	9.2	13.6

Future Requirements Committee Regions

1	2	3	4	5	6	7	8	9	10
New England	N.Y., Md., Ky. N.J., Va., Ohio Del., W.Va., Pa.	Ala., N.C. Fla., S.C. Ga., Tenn.	Ill., Ind. Mich., Wisc.	Iowa, Minn. Nebr., N.D. S.D.	Kans., Mo. Okla.	Ark., La. Miss., Tex.	Col., Mont. Utah., Wyo.	Ariz., Nev. N.M., Calif.	Idaho, Oregon Wash.

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a/ Federal Power Commission The Gas Supplies of Interstate Natural Gas Pipeline Companies, 1969 and 1971.

Source: Federal Power Commission; News Release No. 21108, Feb. 10, 1975; No. 20849, Nov. 15, 1974.

STATUS OF CURTAILMENT PLANS BY INTERSTATE GAS PIPELINE COMPANIES AS OF MARCH 1975

Future Requirements Committee Region Pipeline Company (1)	Major Pipe-line (2)	FPC Docket No. RP Fiscal Year-No. (3)	Type of Curtailment Plan Filed with Federal Power Commission: FPC Order No. 467B (End Use Basis) (4)	Type of Curtailment Plan Filed with Federal Power Commission: Pro-Rata by Sales Contract Quantity a/ (5)	Type of Curtailment Plan Filed with Federal Power Commission: Other Method (6)	Term of Plan: Date Effective (7)	Term of Plan: Date Expires (8)	Status of Curtailment Plan January 1, 1975 In or Subject to FPC Hearing: For Order No. 467 Deviation (9)	Court Remand to FPC (10)	Charge for Under-Curtailment, Credit for Over-Curtailment (11)	End Use Data Collection (12)	Other (13)	Inter-ruptible Service Curtailed Before Firm Service Curtailment (14)	Other Service Priorities and Curtailment Plans (15)
Region 1 - New England														
Algonquin Gas Transmission	X	71-131	X	X	--	11/16/73	--	X	--	--	--	--	X	Pro-rata curtailment on days when pipeline supplier is not curtailing Algonquin.
Tennessee Gas Pipeline	X	74-24	X	--	--	11/1/73	--	--	--	--	--	X	--	--
Region 2 - N.Y., N.J., Del., Md., Va., W.Va., Ky., Ohio, Pa.														
Columbia Gas Transmission	X	72-89 72-112	--	X	--	4/1/72	4/30/75	X	--	X	--	X	--	Pro-rata reduction of maximum monthly and daily customer requirements agreed upon by Columbia and customers. Small firm service customers are not curtailed.
Consolidated Gas Supply	X	72-47 73-115	X	--	--	8/8/73	--	--	--	X	--	X	--	--
East Tennessee Natural Gas	X	75-28	X	--	--	12/2/74	--	X	--	--	--	--	--	--
Eastern Shore Natural Gas		72-21	--	--	X	11/22/71	--	--	--	--	--	--	X	1st Priority: Firm sales for resale including industrial customers using 100 Mcf/d and firm transportation service. 2nd Priority: Firm industrial sales for resale over 100 Mcf/d. 3rd Priority: Direct firm industrial sales. 4th Priority: Interruptible sales.
Kentucky-West Va. Gas		None	No Plan Filed b/			--	--	--	--	--	--	--	--	Pro-rata curtailment under force majeure conditions.
Lawrenceburg Gas Trans		None	No Plan Filed b/			9/1/65	--	--	--	--	--	--	X	All other deliveries curtailed to protect domestic service.
National Fuel Gas Supply		74-100	X	--	--	1/12/75	--	--	--	--	--	--	--	--
North Penn Gas		None	No Plan Filed b/		--	--	--	--	--	--	--	--	--	Curtailment only under force majeure conditions-no method stated.
Panhandle Eastern Pipe Line	X	71-119	X	--	--	11/6/73	--	--	--	--	--	--	--	--
Tennessee Gas Pipe Line	X	74-24	(See Region 1)											
Texas Eastern Transmission	X	71-130 72-58	X	--	--	9/5/73	--	--	--	--	--	X	--	--
Texas Gas Trans.	X	72-64	X	--	--	6/18/73	3/31/75	--	--	--	X	X	--	--
Transcontinental Gas Pipeline	X	72-99	50%	50%	--	11/16/74	11/15/75	X	X	X	--	--	X	1974-1975 Winter and Summer seasonal entitlements, and annual entitlements for all large firm customers are determined on the basis (1) of Transco's total gas supply, and (2) by using 50% of the customer's supply contract and 50% of the end use volumes determined from the priorities in FPC Order No. 467B. Curtailments will be made down to the sum of these entitlements expressed as Priorities of Service 1, 2 and 3. Priority 1 includes residential, commercial and storage injection requirements. Priority 2 includes generally the Priority 2 industrial uses in FPC Order No. 467B. Priority 3 (the lowest priority) includes all other gas. Small resale customers will receive an annual entitlement equal to 110% of 1973 annual sales or if larger sales for 12 months ended July 31, 1974.

a/ Maximum daily or monthly obligation of pipeline to deliver.
b/ Effective tariff provides adequate curtailment procedures.

STATUS OF CURTAILMENT PLANS BY INTERSTATE GAS PIPELINE COMPANIES AS OF MARCH 1975

Future Requirements Committee Region Pipeline Company (1)	Major Pipe-line (2)	FPC Docket No. RP_ Fiscal Year-No. (3)	Type of Curtailment Plan Filed With Federal Power Commission: FPC Order No. 467B (End Use Basis) (4)	Pro-Rata by Sales Contract Quantity a/ (5)	Other Method (6)	Term of Plan: Date Effective (7)	Date Expires (8)	Status of Curtailment Plan January 1, 1975 In or Subject to FPC Hearing: For Order No. 467 Deviation (9)	Court Remand to FPC (10)	Charge for Under-Curtailment; Credit for Over-Curtailment (11)	End Use Data Collection (12)	Other (13)	Interruptible Service Curtailed Before Firm Service Curtailment (14)	Other Service Priorities and Curtailment Plans (15)
Region 3 - Ala., Fla., Ga., N.C., S.C., Tenn.														
Alabama-Tennessee Natural Gas		74-42	X	--	--	12/28/73	--	--	--	--	--	--	--	--
Florida Gas Transmission	X	71-128	--	X	--	6/15/71	--	--	--	--	--	--	X	Firm service resale and direct curtailed pro-rata by quantity of contract demand. Resale interruptible of higher priority than direct interruptible service.
South Georgia Natural Gas		74-28	X	--	--	11/13/73	--	--	--	--	--	--	--	--
		72-74	--	--	X	1/11/72	b/	X	--	--	--	--	--	Order of curtailment: (1) Electric generation boiler fuel gas direct and resale in excess of contract demand. (2) Interruptible service gas in excess of contract demand direct and resale. (3) Remaining electric generation boiler fuel gas. (4) Remaining interruptible requirements. (5) Firm industrial requirements. (6) Remaining requirements. Summer curtailments at each delivery point; heating season requirements at grouped delivery points.
		72-74												
		72-74												
Southern Natural Gas	X	72-74			X									
		72-74												
		72-74												
		74-6	X	--	--	c/	--	--	--	--	--	X	--	--
Tennessee Natural Gas Lines		74-54	X	--	--	1/18/74	--	--	--	--	--	--	--	--
Trunkline Gas	X	71-100	(See Region 4)											
United Gas Pipeline	X	71-29 71-120	(See Region 7)											
Region 4 - Ill., Ind., Mich., Wisc.														
Great Lakes Gas Transmission	X	71-134	--	X	--	5/17/71	--	--	--	--	--	--	--	Pro-rata curtailment by ratio of customer's contract demand to the sum of all contract demands.
Michigan Wisconsin Pipe Line	X	71-117	--	X	--	5/19/71	--	--	--	--	--	--	X	
Midwestern Gas Transmission	X		X											
Southern Division		74-29		--	--	11/9/73	--	--	--	--	--	--	--	--
Northern Division		74-69		--	--	4/15/76	--	--	--	--	--	--	--	--
Mississippi River Transportation	X	73-6	--	--	X	11/2/73	--	X	--	--	--	--	X	Order of curtailment: (A) Interruptible Service (a) direct industrial, (b) sales for resale, (c) retail sales by large volume resale customers, (d) retail sales by small volume resale customers; (B) Release of Gas by large volume resale customers to protect direct industrial firm service; (C) Firm Service:(1) gas equivalent to standby capacity for firm industrial sales of (a) large direct customers, (b) large resale customers, (2) firm and industrial sales without standby capacity (a) large direct customers, (b) large resale customers, (3) remaining firm industrial sales, direct and resale, (4) remaining sales.

a/ Maximum daily or monthly obligation of pipeline to deliver.
b/ Expires on date FPC Order No. 467B (Docket No. RP74-6) plan is accepted.
c/ Effective as permanent plan upon FPC order in Docket No. RP74-6.

STATUS OF CURTAILMENT PLANS BY INTERSTATE GAS PIPELINE COMPANIES AS OF MARCH 1975

Future Requirements Committee Region Pipeline Company (1)	Major Pipeline (2)	FPC Docket No. RP_ Fiscal Year-No. (3)	Type of Curtailment Plan Filed with Federal Power Commission: FPC Order No. 467B (End Use Basis) (4)	Pro-Rata by Sales Contract Quantity a/ (5)	Other Method (6)	Term of Plan: Date Effective (7)	Date Expires (8)	Status of Curtailment Plan January 1, 1975 — In or Subject to FPC Hearing: For Order No. 467 Deviation (9)	Court Remand to FPC (10)	Charge for Under-Curtailment, Credit for Over-Curtailment (11)	End Use Data Collection (12)	Other (13)	Interruptible Service Curtailed Before Firm Service Curtailment (14)	Other Service Priorities and Curtailment Plans (15)
Region 4 (Continued)														
Natural Gas Pipeline Co. of America	X	70-42	--	X		11/23/71	--	--	--	--	--	--	--	Pro-rata curtailment by ratio of customer's contract demand to sum of all contract demands, (1) to customers whose annual load factors exceed 75% curtailed down to 75% (2) further curtailment to customers whose load factors exceed Natural's system load factor. Customers whose January purchases are less than 30,000 Mcf are exempted but are not allowed load growth.
Northern Natural Gas	X	71-107	--	X	--	10/2/72	--	--	--	--	--	--	--	Pro-rata curtailment by ratio of customer's contract demand to sum of all contract demands: (1) All customers up to 15% of contract demand after exemption of first 2000 Mcf/d; (2) Non-pipeline customers up to 60% of contract demand - interruptible gas for electric generation to be curtailed first after 5000 Mcf/d exemption (200 Mcf/d after September 1974); (3) Large volume industrial customers (over 200 Mcf/d). Pipeline customers may offset curtailment by takes in excess of contract demand on days of no curtailment. In winter months (October-April) customers' interruptible service to electric generating plants will be curtailed up to 40% of the contract demand of the customer with exemption noted above.
		74-102	--	X	--	b/	--	--	--	--	--	X	--	
Trunkline Gas	X	71-100	--	X	--	11/1/74	c/	X	--	--	--	--	X	Pro-rata curtailment by ratio of customer's contract demand to sum of all contract demands. All interruptible service by Trunkline curtailed first.
Region 5 - Iowa, Minn., Neb., N.D., S.D.														
Kansas-Nebraska Natural Gas	X	74-11	--	--	X	3/16/74	--	X	--	--	--	--	X	Interruptible direct and sales for resale curtailed in non-discriminatory manner. Restricts increases in present sales and new sales for boiler fuel or generation of electricity. No increases allowed in resale contract demands or direct industrial sales.
Midwestern Gas Transmission	X	74-29 74-69	(See Region 4)											
Natural Gas Pipeline Co. of America	X	70-42	(See Region 4)											
Northern Natural Gas	X	71-107 74-102	(See Region 4)											
Region 6 - Kansas, Mo., Okla.														
Commercial Pipelines		None	--	--	--	--	--	--	--	--	--	--	--	No curtailment plan. Tariff provides for reduced deliveries in gas supply deficiency.
Cities Service Gas	X	71-106 71-129	--	X	--	6/17/71	--	--	--	--	--	--	X	Order of Curtailment: (1) Interruptible industrial sales, (2) Interruptible commercial sales; (3) Firm sales, pro-rata by ratio of customers contract demand to sum of all contract demands.
Northern Natural Gas	X	71-107 74-102	(See Region 4) (See Region 4)											
Transwestern Pipeline	X	73-101	(See Region 9)											

a/ Maximum daily or monthly obligation of pipeline to deliver.
b/ Proposal settlement in Docket RP74-102 sent to FPC February 1975 - provides for successively greater curtailments of gas for electric generation, up to 100%.
c/ Proposed revised pro-rata plan as a result of settlement in RP71-100 sent to FPC 9/23/74, not acted upon by FPC, March 3, 1975.

Schedule II-2
Sheet 4 of 4

STATUS OF CURTAILMENT PLANS BY INTERSTATE GAS PIPELINE COMPANIES AS OF MARCH 1975

			Type of Curtailment Plan Filed with Federal Power Commission			Term of Plan		Status of Curtailment Plan January 1, 1975 In or Subject to FPC Hearing						
Future Requirements Committee Region Pipeline Company (1)	Major Pipe-line (2)	FPC Docket No. RP__ Fiscal Year-No. (3)	FPC Order No. 467B (End Use Basis) (4)	Pro-Rata by Sales Contract Quantity a/ (5)	Other Method (6)	Date Effective (7)	Date Expires (8)	For Order No. 467 Deviation (9)	Court Remand to FPC (10)	Charge for Under Curtailment, Credit for Over-Curtailment (11)	End Use Data Collection (12)	Other (13)	Inter-ruptible Service Curtailed Before Firm Service Curtailment (14)	Other Service Priorities and Curtailment Plans (15)
Region 7 - Ark., La., Miss., Tex.														
Arkansas-Louisiana Gas	x	71-122	X	--	--	3/7/74	--	--	--	--	--	--	--	--
Louisiana-Nevada Transit		72-13	--	X	--	8/19/71	b/	--	--	--	--	X	X	Pro-rata curtailment by ratio of customer's contract demand to sum of all contract demands. Residential and small commercial last to be curtailed. No new or increased deliveries.
Mid-Louisiana Gas		71-139	--	X	--	4/4/72	--	--	--	--	--	--	X	Pro-rata curtailment by ratio of customer's contract demand to sum of all contract demands
Mississippi River Transmission	x	73-6	(See Region 4)											
United Gas Pipe Line	x	71-29 71-120	--	X	--	1/13/73	c/	X	X	--	--	--	--	Pro-rata curtailment by ratio of customer's contract demand to sum of all contract demands. (1) All deliveries not supplied under (2) and (3); (2) Industrial gas used as feedstock; (3) Gas used for domestic purposes. Note: No industrial customer is curtailed to less than 3000 Mcf/d in (3) until all customers are curtailed down to 3000 Mcf/d.
Region 8 - Colo., Mont., Utah, Wyo.														
Colorado Interstate Gas	X	71-135 72-122 72-113	--	X	--	10/19/72	--	--	--	--	--	--	X	Order of Curtailment: (1) Interruptible service; (2) Firm service, (a) to resale customers for interruptible industrial use, (b) firm industrial sales (c) domestic and commercial sales.
Northwest Pipe Line	X	74-49	(See Region 10)											
Region 9 - Ariz., Calif., Nev., N.Mex.														
El Paso Natural Gas	X	72-6	X	--	--	3/73	d/	--	X	--	X	X	--	No distinction between firm and interruptible large volume (over 200 Mcf/d) industrial use.
Northwest Pipe Line	X	74-49	(See Region 10)											
Pacific Gas Trans. e/	X	None												
Transwestern Pipeline	X	73-101	X	--	--	5/31/73	--	--	--	--	--	X	--	--
Region 10 - Idaho, Oregon, Wash.														
Northwest Pipeline	X	74-49	--	X	--	1/31/74	f/	X	--	X	--	--	X	Service under Priorities 1 and 2 (Order No. 467B) will be maintained at highest priority within the limits of available supply during curtailment periods.

a/ Maximum daily or monthly obligation of pipeline to deliver.
b/ Revised plan proposed by interim decision 6/13/73 in Docket No. RP72-13 not yet in effect (3/3/75).
c/ In effect until remand of the 5th Circuit Court is dissolved. Remand includes filing of an environmental statement with a permanent plan.
d/ Expected to be replaced in April 1975 by a permanent plan ordered by the FPC 12/19/74. The permanent plan is generally similar to the present plan but may be modified by hearing on the environmental impact of the plan.
e/ Supply of gas imported from Canada under a long-term contract. No gas shortage is anticipated.
f/ Will be replaced at a future date by the permanent curtailment plan now in hearing in Docket No. RP74-49.

El Paso Natural Gas Company
Gas Curtailment Proceedings

El Paso Natural Gas Company, one of the largest interstate gas pipelines, sells gas for resale to local gas distributors and makes direct industrial sales (main line and field sales) in the states of Texas, New Mexico and Arizona. It sold for resale over 74 percent of its 1973 annual sales at the Arizona-California border to Southern California Gas Company and Pacific Electric and Gas Company for local distribution and resale within California. El Paso makes one sale for resale to an interstate pipeline in Nevada and minor field sales in Oklahoma and Colorado. 1/ The company's 1973 sales were divided as follows:

EL PASO NATURAL GAS COMPANY
1973 SALES
(billions of cubic feet)

Service Class	California	East of California	Total
Sales for Resale	988.1	223.9	1212.0
Retail Industrial Sales	--	121.9	121.9
Total Sales	988.1	345.8	1333.9
Percent	74.1%	25.9%	100.0%

In response to the policies expressed by the Commission, 2/ El Paso 3/ on July 6, 1971 filed proposed changes in its FPC Tariff to become effective on August 6, 1971 to establish "measures to assure as reliable and adequate service to its customers as present natural gas supplies and pipeline capacity will permit." 4/ The Commission suspended the tariff filing -- the proposed curtailment of service

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1/ Prior to January 1974, El Paso also supplied Northwest United States with natural gas through its Northwest Division. By U.S. Supreme Court order the Northwest Division was divested and sold to a new pipeline, Northwest Pipeline Corporation.

2/ Order No. 431 in Docket No. R-418, issued April 15, 1971.

3/ The Southern Division of El Paso.

4/ Order Suspending El Paso's tariff filing in Docket No. RP72-6, issued August 5, 1971.

plan -- for the full five months allowed under the Natural Gas Act, until January 6, 1972.

El Paso in its filing did not allege any immediate gas shortage for the Winter 1971-1972 but referred to the firm capacity of its pipeline system; 3.9 Bcf per day in the winter and 3.8 Bcf per day in the summer which would be apportioned under the curtailment plan by the historical usage patterns of its resale and direct customers.

Under this plan no curtailment of California customers would take place until all East of California (EOC) service had been curtailed. Hearings on the matter were held before a Presiding Law Judge in late 1971 and were completed in the summer of 1972.

However, on August 17, 1972 El Paso requested a Commission order prescribing interim emergency curtailment rules for a period from November 1, 1972 until a final order would be issued on its permanent curtailment plan. The hearing record was reopened to receive evidence on the need and the form of an interim plan. El Paso introduced evidence of a gas supply shortage [1] and proposed an end-use plan which would still cut off completely the EOC customers, including residential service, before any curtailment of the California sales.

On October 31, 1972, the Commission prescribed in Opinion No. 634 an interim curtailment plan for one year or until a permanent plan was established for El Paso, whichever event occurred first. The Commission revised its interim plan on December 15, 1972 in Opinion No. 634-A and on February 7, 1973 made further changes for clarification. The plan was finally made part of El Paso's tariff in March 1973 and according to recent orders of the Commission in December 1974, will remain in effect through March 1975.

The interim curtailment plan provides the following service priorities for deliveries on any day that curtailment is needed:

Priority 1. Residential, small commercial (less than 50 Mcf on a peak day) and residential needs associated with industrial requirements served directly or indirectly.

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[1] 1973 Actual curtailments reported to the Commission in El Paso's annual report of gas supply (Form 15) were 117.3 Bcf or 8.1 percent of 1973 gas requirements.

Priority 2.	Large commercial requirements and industrial requirements for plant protection, feedstock and process needs.
Priority 3.	All industrial requirements not specified in Priorities 2, 4 and 5.
Priority 4.	Industrial requirements for boiler fuel use at less than 3,000 Mcf per day, but more than 1,500 Mcf per day, where existing alternate fuel facilities are present.
Priority 5.	Industrial requirements for large volume (in excess of 3,000 Mcf per day) boiler-fuel use where existing alternate fuel facilities are present.

The Commission interpreted "requirements" as used above to mean the total deliveries scheduled (i.e., requested) by El Paso's customer on any day of curtailment but not more than El Paso's maximum daily delivery obligation under the sales contract with the customer. Also, the Commission interpreted deliveries for gas turbine fuel as not being "boiler fuel" and hence to be supplied under Priority 3. Furthermore, the Commission allowed deviations from the curtailment procedure when required by environmental problems.

Since the two California customers of El Paso also purchase gas from other pipelines and from local producers in addition to the supplies obtained from El Paso they are considered partial requirements customers. EOC customers, in general, purchase all of their gas requirements from El Paso and would be considered full requirements customers. To clarify the interim curtailment procedures the Commission found that:

> El Paso shall, however, curtail both full and partial requirements customers equitably, in that partial requirement customers shall bear a ratable share of curtailment in relation to El Paso's proportionate share of the markets they serve. El Paso should explain ... the procedures used to determine on a daily basis the percentage of total requirements in each priority classification El Paso supplies to its partial requirement customers.

The Commission disallowed the grouping of delivery points for curtailment purposes; i.e., instead of using the total daily delivery to a customer El Paso was required to apply the curtailment percentage to each separate metering point at which portions of the total daily volume are delivered. The Commission's reasons were that grouping of delivery points would be discriminatory against customers with a single delivery point, e.g. California; and that grouping would allow gas to be delivered for lower priority consumption by those customers having several delivery points. The question of grouping, however, was set for further hearings and evidence.

The Commission set annual limitations on the total quantities of gas to be taken by EOC distributors and industrial customers since their contracts do not provide for such limits. The volume of gas taken during the 12 months ending June 30, 1972 plus any curtailments was chosen as the ceiling. Because the gas shortage is directly related to the annual volumes El Paso is able to obtain from its gas supply sources (which were declining each year) the effect of the EOC annual volume ceilings was to hold the supply status at 1972 levels. The California customers by virtue of El Paso's daily contract demands with them were being held to 1972 annual volume ceilings, i.e. to no more than 365 times the daily contract demand which could not be increased during the shortage.

Finally, the Commission reiterated its expectation that a full environmental record would be obtained in the hearings on a permanent curtailment plan for El Paso.

As discussed heretofore, the Commission on January 8, 1973 issued its General Policy Statement, Order No. 467 in Docket No. R-469 (as revised by Order Nos. 467-A and 467-B) establishing as a criterion for pipeline service curtailments during the gas shortage, nine priorities of service. The lowest priorities, 6 through 9, were set for interruptible service.

In its interim curtailment plan for El Paso, the Commission deleted reference to interruptible service, thus giving to firm and interruptible industrial service the same priority during curtailment. The deletion of interruptible service results from a long-standing California utility law that requires all customers of California gas distributors who are supplied with more than 200 Mcf per day to be subject to interruption of supply and to maintain alternate fuel supplies. No such state requirement is applicable to the EOC customers of El Paso.

The effect of the nine priorities plan would then be to put the firm industrial customers of the EOC distributors and the industrial customers of El Paso in Priorities 3 to 5, and the large California customers, industrial and commercial, in Priorities 6 through 9, although the California customers by that state's laws were not allowed to receive firm service. The Commission's judgement was that the regulatory policy of California has influenced the development of contractual relationships on the El Paso system and would result in inequities between EOC and California customers taking gas for the same end-use during periods of curtailment.

For these reasons, the Commission made no distinction between firm and interruptible industrial service in Priorities 3, 4 and 5 of its interim plan for El Paso and placed large commercial requirements in Priority 2 whether firm or interruptible service is provided.

On June 5, 1973, the Presiding Judge issued the initial decision on the permanent curtailment plan for El Paso. On September 19, 1973 the Presiding Judge issued the initial decision on whether grouping of delivery points should be allowed in computing a customer's gas entitlements during curtailment under the permanent plan. The Presiding Judge proposed a 10-priority of service plan in his June 1973 decision that included lower priorities for interruptible service than for firm service. The Judge also approved grouping in his September decision. The matters now moved to the Commission for final decision.

On October 18, 1973, the Commission extended the life of the interim plan which would have expired on October 31 pending further action of the Commission on a permanent plan.

On January 21, 1974, the Court of Appeals, D.C. Circuit, affirmed in part and reversed and remanded in part the Commission's interim curtailment plan. The interim plan was to be continued in effect for a reasonable period pending Commission action on the remand. The Court questioned (1) assignment of the boiler fuel usage to the lowest priority of service (2) assignment of annual limitations to the EOC full-requirements customers on actual gas deliveries and to the California partial requirements customers on contract entitlements, and (3) the Commission's elimination of grouping of delivery points.

On June 14, 1974, the Commission in Opinion No. 697 prescribed a permanent curtailment plan for El Paso and also complied with the Court remand. Essentially, the permanent plan is the interim plan with two significant modifications, (1) addition of customer underground storage injections to the other requirements in Priority 2 of the interim plan and (2) a change in Priorities 4 and 5 with respect to alternate fuels from "where alternate fuel facilities are present" to "where alternate fuel capabilities can meet such [boiler fuel] requirements."

The second change is of considerable importance. Under the interim plan customers that did not have available alternate fuel facilities to provide a substitute for gas used for boiler fuel were given Priority 3 service during curtailment -- all deliveries in Priorities 5 and 4 would be cut off before Priority 3 customers were curtailed.

Under the permanent plan, these Priority 3 users will be placed in Priority 4 or Priority 5 depending upon the size of the boiler fuel requirements. The test as between Priority 3 and the lower priorities depends only on whether alternate fuels if obtainable by the customer can meet the boiler fuel requirements -- it presumes that the customer will install the necessary facilities and make timely contract for an adequate supply of alternate fuels.

The Commission complied with the D.C. Court of Appeals three part remand by (1) defending its boiler fuel low priority on the grounds that alternate fuels could be more easily obtained to substitute for gas boiler fuel sales; (2) that air pollution resulting from the use of alternate fuels could be more efficiently and economically controlled since the installations of the boiler fuel users would be of large size, e.g., power plants; and (3) that by first curtailing boiler fuel gas sales the evidence showed that displacement of gas could be maximized with a minimum of economic disruption and dislocation.

On the second question, the annual volume limitations imposed on EOC customers vs. the daily contract entitlements allowed California customers, the Commission pointed out that both groups received the same treatment since the daily contract entitlements of the California customers are equivalent on an annual basis to their historic annual volumes, i.e., the California customers take their total daily contract volumes each day of the year.

On the third question, the Commission reversed its requirement in the interim plan and permitted grouping of delivery points in the permanent plan, subject to further evidence in a remanded Commission proceeding.

In addition, the Commission decided the following issues in regard to the permanent plan:

1. Changed the base period for annual volume limitations from 12 months ending June 30, 1972 to 12 months ending October 31, 1972 as adjusted for the annualized effect of attached Priority 1 and 2 gas loads existing on October 31, 1974.

2. Added penalties for unauthorized overruns of daily curtailment, up to 3 percent of the tariff rate; over 3 percent to 5 percent - $2.50/Mcf; over 5 percent daily overrun - $5.00/Mcf.

The annual volume limits are a necessary part of the Federal and State control of the impact of the national gas supply shortage. In El Paso's service area, southwestern United States and California, residential and commercial space heating is minimal compared to the northern states needs. Thus some load growth is permissible for residential and commercial service but of necessity it should be controlled. In general, no new large industrial gas loads are allowed.

Under both the interim and the permanent plans, El Paso was allowed to by-pass the ordered curtailments during immediate emergencies. Also, the Commission acted on appeals of customers where longer term needs for additional gas were claimed usually because alternate fuels were unavailable or unsuitable. Examples of immediate emergency situations are to protect electric service reliability and to alleviate environmental emergencies so as to forestall irreparable injury to life or property.

In Opinion No. 697, the Commission reiterated a conclusion reached in its order of August 22, 1972 1/ that compliance with the National Environmental Act (NEPA)

1/ Order denying motion to terminate the proceeding and to require Commission Staff to prepare and circulate an environmental impact statement. Docket No. RP72-6; 48 FPC371.

Section 102(2)(c) procedural requirements in curtailment cases is "not meaningfully possible."

Applications for rehearing of Opinion No. 697 were made by 16 intervenors in Docket No. RP72-6 including the State of California, the California Public Utilities Commission and the Air Pollution Control District of Los Angeles County. Rehearing was granted August 5, 1974.

On December 19, 1974 the Commission issued Opinion No. 697-A which adopted the permanent curtailment plan prescribed in Opinion No. 697 but provided for further hearings in Docket No. RP72-6 on the sole issue of the environmental impact of the permanent curtailment plan. The Commission reversed its previous position and now determined that a remand is necessary to comply with the procedural requirements of the NEPA. The Presiding Judge is authorized to modify the curtailment plan as may be required by the environmental evidence.

The permanent curtailment plan will become effective upon acceptance by the Commission of El Paso's revised tariff sheets publishing the Opinion No. 697 plan as modified by Opinion No. 697-A. El Paso is allowed up to 90 days from December 19, 1974 to make the necessary tariff filings or at the latest until March 19, 1975. Presumably the permanent plan will become effective no latter than April 18, 1975 assuming the 30 days statutory notice of tariff changes. The time table could be advanced by accelerated action on the part of El Paso and the Commission. It could be delayed by a Commission or a court stay.

For the Winter 1974-1975, it appears that the interim curtailment plan will remain in effect except that in implementing the plan on any day, El Paso shall permit the grouping of delivery points to determine the total volume of gas required and the manner in which the requested deliveries are to be curtailed.

In addition to the changes and clarifications in Opinion No. 697 that established the permanent curtailment plan, the Commission made further classifications in regard to implementation of the plan. These include:

1. Pipeline customer storage injections in Priority 2 will be the total volumes of gas delivered to underground storage during that period; the net volume to be multiplied by the ratio of total sales in Priorities 1

and 2 to total sales for all priorities during the winter season. This storage formula is instituted to prevent assignment of Priority 2 to storage volumes that may be used for lower priority services.

2. Gas used for fuel for gas turbines will be considered a boiler fuel use in Priorities 4 and 5 -- a change from the interim plan which considered such use as a Priority 3 service.

A considerable part of Opinion 697-A is devoted to end-use data that El Paso will collect from the customers (gas distributors and direct industrials) to establish (1) an "end-use profile" for each customer showing requirements in each service priority category, (2) the winter and summer season base volumes and annual base load volumes by months ending October 31, 1972, updated to October 31, 1974 for Priority 1 and 2 salesloads on that date and (3) the estimated total gas supplies available to El Paso for the coming winter and summer seasons.

The estimated supply will be superimposed on the individual "end-use profiles" to indicate the amount of gas available to each customer for each of the five service priorities during the coming winter and summer seasons. The total pipeline system seasonal entitlements will be reported to the Commission; a copy of El Paso's estimate of each customer's seasonal entitlements by months will be supplied to the customer to aid in scheduling his seasonal takes.

The Commission in Opinion No. 697-A adjusted the unauthorized overrun penalties provided in Opinion No. 697 for takes in excess of allowable volumes on days of curtailment to add a penalty for overrun of authorized winter or summer season entitlements. Overrun solely for the protection of Priority 1 and 2 customers will not be penalized.

The Commission excluded from its alternate fuel capability definition 1/ propane and other gaseous fuels saying that:

1/ FPC Order Nos. 493 and 493A, Order Adapting Certain Definitions to Standardize End Use Classifications, issued September 21, 1973 in Docket No. R-474.

> [I]t is essential that propane and other gaseous fuels be excluded ... since as a purely technical matter, propane or some other gaseous alternate may be substituted for practically all natural gas uses.

If propane and other gaseous fuels were included in the definition of alternate fuel capability the Commission indicated that no useful purpose would be served in that virtually no industrial customer could qualify for exemption from curtailment.

On page 11 of Opinion No. 697-A, the Commission sums up its efforts to establish a permanent curtailment plan for El Paso, as follows:

> We believe that the administrative mechanism here developed will give El Paso the daily and seasonal operating flexibility it needs to protect its high priority loads while at the same time equitably stabilizing growth on a system faced with continuing gas supply shortages.

The permanent curtailment plan ordered by the Commission is shown below. It will be effective presumably on or before April 18, 1975, subject to Commission or Court actions to delay implementation.

EL PASO NATURAL GAS COMPANY PERMANENT GAS CURTAILMENT PLAN
PRIORITIES OF SERVICE TO GAS CUSTOMERS DURING DAILY CURTAILMENT

Priority 1	Residential, small commercial (less than 50 Mcf on a peak day).
Priority 2	Large commercial requirements (50 Mcf or more on a peak day), industrial requirements for plant protection, feedstock and process needs, and pipeline customer storage injection requirements.
Priority 3	All industrial requirements not specified in Priorities 2, 4 and 5.
Priority 4	Industrial requirements for boiler fuel use at less than 3,000 Mcf per day, but more than 1,500 Mcf per day, where alternate fuel capabilities can meet such requirements.
Priority 5	Industrial requirements for large volume (in excess of 3,000 Mcf per day) boiler fuel use where alternate fuel capabilities can meet such requirements.

Schedule II-4
Sheet 1 of 9

Transcontinental Gas Pipe Line Corporation
Gas Curtailment Proceedings

Transcontinental Gas Pipe Line Corporation (Transco) owns and operates an integrated gas pipeline system that starts in southeast Texas, crosses 10 southern and eastern states, and ends in the New York City area. Transco sells, transports for others and stores natural gas. Sales for resale were made in 1973 to 67 local gas distributors and intrastate pipelines (90.3%) and to 6 interstate pipelines (9.7%). Only one direct industrial sale was made in 1973. All of its natural gas supplies are purchased, about 8 percent in 1973 from other interstate pipelines and the remainder from numerous independent gas producers located onshore and offshore Louisiana and Texas.

Transco's sales are made in 11 states but most of them are made north of Georgia. The table below compares sales for resale and direct sales by rate zones for the years 1970 through 1973.

TRANSCONTINENTAL GAS PIPE LINE CORPORATION
GAS SALES YEARS 1970 - 1973
(Volumes in Billions of Cubic Feet)

	Sales For Resale				
Year	Zone 1	Zone 2	Zone 3	Total	Direct Sales
1970	47.4	267.8	678.8	994.0	4.1
1971	38.9	273.7	665.6	978.2	3.0
1972	46.9	270.1	640.6	957.6	3.3
1973	45.3	257.0	618.0	920.3	3.1

Zone 1: Georgia, Alabama, Mississippi, and Texas
Zone 2: Virginia, North Carolina, South Carolina
Zone 3: New York, New Jersey, Pennsylvania, and Maryland

Source: Annual Reports, Form 2 of Transco filed with Federal Power Commission.

As the table shows, the total gas sales of Transco declined about 74 Bcf between 1970 and the end of 1973. The decline was brought about by curtailments of gas sales under curtailment plans filed with the Federal Power Commission (Commission) at its request.

There is an important feature concerning the composition of Transco's market which deserves some attention in light of the complicated litigation history of Transco's curtailment plans. Unlike most other pipelines, Transco sells significant volumes of gas in markets with widely divergent end-use gas consumption characteristics. Transco's southern (zones 1 and 2) customers have traditionally sold a significant portion of their gas to industrial concerns, while Transco's northern customers have a higher proportion of residential and commercial sales. Thus, end-use allocations have a significantly disproportionate impact on Transco's customers.1/

On May 17, 1971 Transco filed with the Commission revisions to its effective tariff to provide a curtailment policy to be followed in the event of a gas supply shortage. 2/ The curtailment plan went into effect May 29, 1971 after a one-day suspension by the Commission in Docket No. RP71-118, to provide for public hearings. The plan provided for across-the-board percentage (pro-rata) reductions in the contract demands of the large customers to meet any supply deficiencies. The 35 small customers, using 7,500 Mcf per day or less, were exempted. The order of curtailment was first, all sales made to direct interruptible customers and those made for resale under Transco's interruptible rate schedules and thereafter, all firm direct sales and firm sales for resale.

The plan made no distinction between the various end-uses of the gas sold; e.g., boiler fuel use was not assigned a low priority of service. Annual contract sales -- firm service as to the 12 months contract total but not firm for daily deliveries as contract demand service is -- were assigned 1/365 of the contract total as a daily volume subject to the precentage curtailment. The tariff rate credit for failure to deliver contract demand on any day was not allowed for gas shortage curtailments but was retained for interruptions in deliveries for other causes

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1/ This is, of course, true of many pipelines, although not to this degree.

2/ Pursuant to the Commission's Order No. 431 in Docket No. R-418.

During the period June 1 through July 4, 1971, Transco imposed a 7 percent curtailment under the plan. The curtailment ended with the connection of a new limited-term gas supply on or about July 1.

Hearings on the plan started in September 1971 and resulted in a settlement with the customers which the Commission approved to be effective from November 16, 1971 through November 15, 1972. The settlement incorporated the initial plan filed by Transco as described above but with some modifications. These included exemption from further curtailment of any distributor or direct firm customer during the winter period (November 15 through April 15) who discontinued all interruptible sales or in the case of the direct customer uses of gas that could be interrupted. Exemption volumes were to be "made up" by taking lesser volumes of gas after the winter period so that the weighted average percentage of curtailment would be the same for all customers by November 15, 1972. The demand charge adjustment (credit) for a gas supply deficiency would be applicable during the winter period -- this credit amounted to the monthly demand charge divided by 30 and would be applied to the difference in Mcf volume between the volume of gas requested by the customer up to the contract demand and the volume that Transco was able to deliver.

Also, at the end of the winter period the system-wide average percentage curtailment would be computed. Any customer curtailed greater than the system percentage would receive 25 cents per Mcf payment by Transco for the excess. Transco would be reimbursed for this credit and the above demand charge credit by subsequent bills to the customers. The compensation for over-curtailment was subsequently expanded and has become a key controversy in the Transco curtailment proceedings between the Commission and Transco customers.

The Commission approved the interim curtailment plan for the 12 months ending November 15, 1972 including a condition that Transco file a permanent plan by January 17, 1972, which would become effective on November 16, 1972. Transco made the required filing -- a curtailment plan similar to that in effect -- which the Commission suspended in Docket No. RP72-99 for five months but with the understanding that it would not become effective until November 16.

However, after the hearings the customers and Transco agreed to another interim plan to be effective from November 16, 1972 through November 15, 1973. The Commission approved this plan on November 15, 1972.

The second interim curtailment plan included the basic provisions of the previous plan, i.e., all interruptible service by Transco to be first curtailed; exemptions allowed from curtailment, entirely for small volume firm customers and large customers exempted after all of their interruptible sales had been discontinued. Additional provisions were a 25 cents per Mcf surcharge for exempted volumes and a 25 cents per Mcf credit for customers curtailed more than the announced level of curtailment -- the debts and credits to be accumulated in a deferred account which would be periodically balanced by increases or decreases in Transco's commodity rates. If the firm services of the customers needed to be curtailed, end-use priorities were established to protect human needs customers, the residential and commercial users.

The Commission refused requests for a hearing on the permanent plan until more experience was obtained on the operation of the present form of curtailment. However, a hearing on the permanent plan was not abandoned, the Commission said. The Commission also denied the request of the City of New York for preparation by the Commission of an environmental impact statement by November 15, 1973 stating that there was no basis for the impact statement.

In view of the subsequent problems of the Commission with Transco's curtailment plans it is of note that approval of the second interim plan included 1) expansion of the compensation feature from a 25¢/Mcf credit for over-curtailment volume to a balancing 25¢/Mcf for under-curtailment volumes and 2) while the pro-rata curtailment by contract demands was continued, an end-use priority of service was added if firm services were to be curtailed.

The approved settlement agreement establishing a second interim curtailment plan included an agreement by Transco to file another curtailment plan by May 1, 1973 to go into effect after Commission suspension on November 16, 1973. The earlier permanent plan filed January 17, 1972 was still under suspension in Docket No. RP-72-99. On May 1, 1973 Transco requested that the Commission extend the second interim plan for another year to November 15, 1974. Transco stated that it was preparing to collect market data so as to file an end-use plan in accordance with Order No. 467 of the Commission but anticipated that the Commission's plan would "find large disfavor" with many of its customers.

On May 23, 1973 the Commission ordered Transco to file a permanent plan by July 1, 1973. Transco was specifically advised to give consideration to Order No. 467-B in determining a permanent plan. On June 29, 1973 Transco filed a permanent plan which the Commission said was in substantial compliance with Order 467-B but was suspended on July 30, 1973 for hearing and investigation, until November 16, 1973.

The Commission at the same time denied a second request by Transco to keep the interim plan in effect for another year.

Several of Transco's customers and the North Carolina Utilities Commission applied for rehearing of the denial of extension of the interim curtailment plan and upon refusal of the Commission took the matter to the District of Columbia Court of Appeals. On November 9, 1973, the D.C. Court stayed the effectiveness of Transco's filing of the Order No. 467-B end-use priorities which under the Commission's order would have gone into effect November 16, 1973. Thus, the second interim plan was allowed to remain in effect for another year until November 16, 1974.

On November 2, 1973, the Commission in denying the request of the North Carolina Utilities Commission for a stay of the effective date (November 16) of the Order 467-B plan found that the second interim plan failed to meet the fundamental principles to be followed in any curtailment plan. These are:

1) Curtailments should be based on end-use rather than contracts.

2) Since large volume boiler fuel usage is inferior, the curtailment of sales of gas for it should precede the curtailment of certain other industrial requirements.

3) Equal treatment should be provided to both direct and indirect (resale) customers.

Hearing in Docket No. RP72-99 on Transco's filing of the Order 467-B type of curtailment plan reconvened on February 19, 1974. On February 16, Consolidated Edison Company of New York requested that the Presiding Judge assigned to the hearing, require the Commission staff to file a draft environmental impact statement. The Presiding Judge denied the request and was upheld in the denial by the Commission on April 30, 1974 -- two of the five Commissioners dissenting. Data on end-use of Transco gas was collected and made part of the hearing record. The hearing was concluded June 25, 1974.

On September 30, 1974, Transco filed a motion with the Commission for approval of an interim curtailment plan to be effective from November 16, 1974 through November 15, 1975. The plan was arrived at by general agreement of the parties to the proceeding in Docket No. RP72-99.

On November 12, 1974, the Commission denied Transco's motion stating that the proposed interim curtailment plan was unjust, unreasonable, discriminatory and contrary to the public interest. On November 26, 1974, the D. C. Court of Appeals mandated that the interim curtailment plan as filed on September 30 be made effective as of November 16, 1974 pending further action by the Commission. Any changes by the Commission, however, would be subject to approval by the Court. The latest interim plan provides: (1) for fixed annual entitlements of gas for the 35 small gas customers of Transco based upon recent requirements updated to July 1974 -- these will not be curtailed unless presently estimated gas supplies deteriorate, (2) for seasonal, winter and summer, firm gas entitlements for the larger customers (those with contract daily demands of over 5,000 Mcf). The entitlements of the larger customers were determined in two steps, first by estimating the available system gas supply separately for each season and deducting the volume from the sum of the historical seasonal requirements of the customers to obtain the needed total seasonal curtailments.

The total curtailment volume for each season was then allocated among the customers by two methods: 50 percent by the historical contract requirements of each customer and 50 percent by the end-use of each customer's historical requirements arranged by the nine service priorities established by the Commission in Order 467-B. The sum of the two allocations is the total seasonal curtailment expected for each customer based upon Transco's gas supplies estimated as of September 1, 1974. The seasonal curtailment thus obtained was deducted from each customer's historical requirements for the 1974-1975 winter and summer seasons to determine the total firm service gas entitlement available to the customer during each season.

The customer entitlements are sub-divided into service priorities 1, 2 and 3 for each season for purposes of further curtailment or for additional allocations of gas depending upon decreases or increases in the estimated gas supplies. The decreases or increases in gas supplies will be allocated to the customers in the reverse order of the three service priorities. Priorities 1 and 2 are generally the same as Order No. 467-B service priorities. Priority 3 comprises the remaining seven priorities of Order No. 467-B.

Transco estimated that total gas supplies for the larger customers of 317.3 Bcf will be available for the winter period ending April 15, 1975 and 393.5 Bcf for the summer period starting April 16 and ending November 15, 1975.

The following table is illustrative of the methods used to spread the curtailment among Transco's larger customers. The table assumes a hypothetical gas pipeline with three customers, A, B and C whose contract requirements and end-use priorities of service differ. It is assumed in the table that all interruptible service, priorities 6 through 9, would be curtailed in order to arrive at firm service entitlements. The priority percentages used are not based upon actual end-use data but are simply for illustration.

HYPOTHETICAL APPLICATION OF TRANSCO CURTAILMENT
PLAN EFFECTIVE NOVEMBER 16, 1974 - November 15, 1975
(Volumes in Millions of Cubic Feet)

	Total System	Winter Season A	B	C
Historical Gas Requirements	100,000	50,000	25,000	25,000
Available Gas Supply	80,000			
Curtailment Needed	20,000			
By Contract 50%	10,000	5,000	2,500	2,500
By Order 467-B 50%	10,000	1/ 4,000	6,000	--
Authorized Entitlement Volumes	80,000	2/ 41,000	16,500	22,500
Percent Curtailment	20%	18%	34%	10%

1/ Assumed Order 467-B Priorities:

Priorities 1 through 5, percent firm service	60	40	100
Priorities 6 through 9, percent interruptible service	40	60	--

2/ System total equals available gas supply.

Source: Federal Power Commission Docket No. RP72-99, Motion for Approval of Interim Settlement Agreement, Transcontinental Gas Pipe Line Corporation, September 30, 1974.

Schedule II-4
Sheet 8 of 9

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Transco's latest interim curtailment plan continues and expands the compensation charges and credits among the customers for over and under individual curtailment as compared with the system average curtailment of all customers. The plan also provides for voluntary release of seasonal entitlements from one customer to another to alleviate emergency conditions. The plan contemplates that no customer will seek extraordinary emergency relief from the Commission as provided under the Commission's Order No. 467-C except after a petition to Transco to arrange for release of gas as provided above.

The compensation transactions provide that customers who are curtailed greater than the system average will be given a billing credit by Transco of 50 cents per Mcf for the over-curtailment volumes and those curtailed less than the system average will be charged 50 cents per Mcf by Transco for the under-curtailment volumes. In addition, a 25 cent per Mcf credit for over-curtailment volumes for the winter season only will be given to customers curtailed greater than the curtailment provided on the 50 percent pro-rata and 50 percent Order No. 467-B basis. A 25 cent per Mcf charge for the under-curtailment volumes during the winter season will be made to customers curtailed less than provided under the pro-rata and Order No. 467-B basis.

The Commission's principal objection to the interim settlement plan is to the compensation and release gas features. The Commission considers them to be the "cornerstone" of the curtailment plan and finds compensation, etc., to be contrary to Sections 4, 5 and 7 of the Natural Gas Act in that the transactions [illegible] and [illegible] in interstate commerce without notice to the Commission and the public, and without certificate authorization under the Act.

The Court [illegible] provided for placing the compensation [illegible] in escrow pending further proceedings before the [illegible].

On January [illegible] the Commission [illegible] the record in Docket No. [illegible] interim curtailment plan in effect [illegible] and to provide for issuance [illegible] statement. Also, since Transco's [illegible] since the September [illegible] the interim plan is based [illegible] Transco's gas supply [illegible] Utilities [illegible] separate order at an early [illegible] customers for extraordinary relief [illegible] this curtailment plan are being [illegible] hearing, the Commission said:

UNITED GAS PIPELINE COMPANY
GAS CURTAILMENT PROCEEDINGS

As shown on Schedule I, the United Gas Pipeline (United) has experienced the largest curtailments because of short gas supplies. United's pipeline system extends from Eastern Texas to Western Florida. Natural gas is sold to five major interstate pipelines[1] for resale in the East and Midwest United States, and to local distributors and mainline industrial customers in Texas (6.8%), Louisiana (53.6%), Mississippi (23.8%), Alabama (9.4%) and Florida (6.4%). United provides only firm service to its three kinds of customers.

The following table shows United's total gas supply by sources and its annual sales for the four years, 1970 through 1973. The declining gas supplies are reflected principally in reduced or curtailed sales to United's mainline industrial customers and other pipelines.

Gas purchased from independent producers accounts for over 91 percent of United's annual supplies. Remaining gas reserves on January 1 of the respective years under the producer contracts have decreased from 12.6 trillion cubic feet in 1970 to 7.5 trillion cubic feet in 1973 -- indicating complete exhaustion of this supply if taken at the 1973 annual purchase rate [illegible] by 1980. The sources of producer supply are in East Texas, Louisiana onshore and offshore, and Mississippi. The remainder of United's gas supply, about 9 percent, is obtained from other pipelines under short and long term contracts.

On October [illegible], United filed with the Commission a revision to its [illegible] proposing three priorities of service to be implemented in the event of impaired deliveries. United projected a shortage of gas supplies during the 1970-1971 winter [illegible] thereafter. The three priorities [illegible]

1. [illegible] customers.

2. [illegible]

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[1] Southern Natural [illegible] Corp., [illegible] Transmission [illegible] America.

[illegible]

[illegible]

[illegible] Supply

Source:	[illegible]	[illegible]	[illegible]	[illegible]
Gas Producers	[illegible]	[illegible]	[illegible]	[illegible]
Other Pipelines	[illegible]	[illegible]	[illegible]	[illegible]
Total Supply	[illegible]	1617	1282	1132

[illegible] Sales

[illegible]	[illegible]	[illegible]	[illegible]	1023
Sales for Resale				
Local Distributors	[illegible]	[illegible]	[illegible]	[illegible]
Other Pipelines	[illegible]	[illegible]	[illegible]	[illegible]
Total for Resale	[illegible]	[illegible]	[illegible]	[illegible]
Direct Sales				
Mainline Industrial Customers	[illegible]	[illegible]	[illegible]	[illegible]
Total Sales	[illegible]	[illegible]	[illegible]	[illegible]

3. Gas used for industrial purposes including gas sold by United to its city gate and pipeline customers for resale to industrial end users and also including gas used to generate electricity which in turn is applied to industrial users.

Curtailment of service would be implemented in reverse order of the priorities, i.e., all service in Priority 3 would be curtailed before Priority 2 deliveries were reduced and the same procedure applied as between Priority 2 and Priority 1. Curtailment within each priority class would be pro-rata based upon the percentage reduction in sales needed to equate supply with system demand for gas.

On October 26, 1970, United requested a declaratory order from the Commission finding that United's priority of service plan "was consistent and in keeping" with the General Terms and Conditions of United's FPC Gas Tariff. Mainline industrial and pipeline customers filed objections to United's request. The Commission assigned Docket No. RP71-29 to the matter and ordered hearings to start December 21, 1970.

United placed its curtailment plan in effect on November 1, 1970 and by an interim settlement with the customers, approved by the Commission, the plan remained in effect through March 1971. A similar plan was made effective from April 1, 1971 through October 31, 1971 for curtailments to meet United's summer needs particularly for injections of gas for underground storage. Hearings in Docket No. RP71-29 were recessed on December 22, 1970 to allow consideration of the interim settlement, started again in spring 1971 and were concluded July 27, 1971.

On October 5, 1971, the Commission issued Opinion No. 606 approving United's curtailment plan as amended by United in Docket No. RP71-120, rejecting two amendments by United but accepting others. United filed revisions to its tariff in compliance with the Commission's decision on October 15, 1971.

During the course of the hearings in Docket Nos. RP71-29 and RP71-120, mainline industrial customers protested the Commission's jurisdiction over deliveries of gas by United under their firm gas purchase contracts. The customers claimed that the Commission had no jurisdiction to allocate gas in a curtailment proceeding in a manner inconsistent with existing direct sales contracts. The Commission's response in Opinion No. 606 was that Section 1(b) of the Natural Gas Act provided it with jurisdiction over the transportation of natural gas in interstate commerce and "there lies our power and duty to act at this time of curtailments" --transportation and sales of gas to direct industrial users is included. As for the consistency with existing contracts pipelines and others "can not by contract avoid their public interest obligations once our jurisdiction attaches."

The customers won a favorable decision in the Fifth Circuit Court of Appeals but upon appeal by the Commission, the U.S. Supreme Court reversed[1] the Fifth Circuit ruled and interpreted Section 1(b) of the Act as giving the Commission complete jurisdiction over the interstate transportation of natural gas whether a particular sale is at retail or wholesale.

Opinion No. 647

On October 5, 1972, the Commission's Staff moved to reopen the record in Docket No. RP71-120, citing primarily a severe increase in United's gas shortage during 1972. The Staff noted that hearings in the Docket and in Docket No. RP71-29 were concluded in July 1971, and despite the drastic changes that have occurred in the basic facts, no supplementary evidence had been taken. The Commission ordered the proceedings to be reopened.

From November 1, 1971 to January 12, 1973 United operated under the four-level priority of service plan ordered by the Commission in Opinion Nos. 606 and 606A:

> Category I. Domestic consumers of natural gas served directly or indirectly by Seller.
>
> Category II. Industrial users of natural gas served directly by Seller, to the extent they use gas as a raw material in creating an end product rather than as (a) an agent for heating, cooling, dehydrating or otherwise affecting industrial process materials, or (b) for other industrial purposes.
>
> Category III. Electric generating stations, whether served directly or indirectly by Seller, to the extent such stations serve domestic consumers of electricity.
>
> Category IV. Users of Sellers' natural gas, whether served directly or indirectly by Seller, to the extent not supplied under Categories I, II, and III.

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[1] *FPC v. Louisiana Power & Light Co.*, 406 U.S. 621, June 7, 1972.

On January 12, 1973, (Opinion No. 647) the Commission combined Categories III and IV but made no other changes and ordered United to curtail under the following three priority of service steps pending establishment of a permanent curtailment plan[1] in accordance with end-use priorities prescribed in Order No. 467.

Category I. Domestic consumers of natural gas served directly or indirectly by Seller.

Category II. Industrial users of natural gas served directly by Seller, to the extent they use gas as a raw material in creating an end product rather than as (a) an agent for heating, cooling, dehydrating or otherwise affecting industrial process materials, or (b) for other industrial purposes.

Category III. Users of Seller's natural gas, whether served directly or indirectly by Seller, to the extent not supplied under Categories I and II.

The Commission was concerned about the impact of the change in priorities that it was prescribing for United in the interim plan whether the change may affect the integrity of electric service in parts of United's service area. The plan eliminated the priority in the four priority plan given to boiler fuel gas used to generate electricity which is consumed by domestic customers.

The Commission did not disturb United's exemption from curtailment of an industrial customer below 3,000 Mcf per day until all customers in the industrial category are curtailed down to the 3,000 Mcf level. In practical effect this provision would exempt all customers from being curtailed to less than 3,000 Mcf per day.[2]

To avoid any adverse effects on the electric service, the Commission required United to provide for an emergency exemption from curtailment for power plants when the electric

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1/ Since United made no interruptible sales, the Commission used the first 5 priority steps of Order No. 467 as its permanent curtailment plan, applicable to firm sales. The Commission stayed the filing of the permanent plan pending evidence to be obtained on the impact of the plan during the reopened proceedings ordered in Docket No. RP71-120.

2/ FPC Order 11/13/74 Docket Nos. RP71-29; RP71-120 Footnote 6.

utility is in an emergency situation requiring load shedding of firm load, has no alternate fuel capability or purchased power opportunities, and has used all alternative sources of power. In addition, the electric utility will accept reduced deliveries of gas as soon as possible to offset volumes taken during the emergency exemption period.

The reopened proceedings in Docket RP71-120 provided for evidence on the following:

1. Particular adverse environmental impact shown to result from the Commission proposed imposition of curtailment.

2. Data requirements related to all priority categories in the Commission's plan.

3. A plan for husbanding United's remaining gas reserves to protect residential and small commercial service by reducing summer sales for large boiler fuel purposes.

United made the necessary filings with the Commission to establish the modified three-priority curtailment plans. This plan is still in effect on April 1, 1975 pending further instructions from the Fifth Circuit Court of Appeals.

On November 8, 1974, the Fifth Circuit Court of Appeals[1/] vacated the curtailment plans present and proposed and remanded the Commission's Opinions and orders in United's curtailment proceedings, Dockets Nos. RP71-29 and RP71-120, for further findings. The Court found that the Commission had not met the requirements of the Natural Gas Act, Sections 4(b) and 5(a) so as to find that United's four-priority curtailment plan (quoted above) was unjust, unreasonable, unduly discriminatory or preferential, before instituting the three-priority plan. Similar findings and substantial additional evidence are needed, the Court found, before prescribing the Commission's new five-priority plan based upon Order No. 467. The Court recommended that the Commission's findings be adequately supported in the remanded hearings.

The Fifth Circuit Court ordered that the four priority plan be re-instituted and remain in force during the remand.

Other matters considered and generally recommended in the Court's decision for further action by the Commission are: (1) need for the Commission to file an environmental

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[1/] State of Louisiana, Louisiana Municipal Association and Parish of Cameron, et al., v. Federal Power Commission No. 73-3478.

impact statement with any permanent curtailment plan, (2) firm service vs. interruptible service priority where the end-use of gas is the same, (3) new customers' priorities vs. long time customers' priorities and (4) United's contract liability to pay the extra cost of alternate fuels to main line industrial customers when gas is curtailed.

On November 13, 1974 the Commission ordered its Solicitor (1) to seek immediate remand of the record from the Court so as to bring the matter back under Commission jurisdiction and (2) to petition the Court to modify its decision by allowing the present three-priority plan to remain in effect pending an "expeditious decision" by the Commission on the remand.

In its order, the Commission stated that the result of reinstating the four-priority plan could be catastrophic. Natural gas service to approximately 400 industrial customers would be completely cut off "on an average day in November as well as the foreseeable winter." Under the three-priority plan some of the 400 would be substantially curtailed but none would be cut off completely.

The Court granted the Commission's petitions and hearings in the reopened proceeding are in progress.

Schedule III-1
Sheet 1 of 2

STATE GAS CURTAILMENT PLANS 1974-1975 BY STATES
(Order of Curtailment From First to Last)

Gas Service and Class (1)	Delaware (2) a/	Delaware (2) b/	New York (3)	Ohio (4) k/	Ohio (4) l/	Ohio (4) m/	West Virginia (5)	North Carolina (6) South Carolina (7) (Essentially the same as FPC end use priorities)	Oklahoma (8) o/	Colorado (9)	Arizona (10)	California (11)	Washington (12)
Interruptible Service	--	1	1	--	--	--	1	--	--	1	1	--	--
Wholesale	1	--	--	--	--	--	--	--	5	--	--	--	--
Large volume over 10,000 Mcf/d	--	--	--	--	--	--	--	1 f/	1	--	--	--	1
Intermediate volume over 1500 Mcf/d	--	--	--	--	--	--	--	2,3 f/	2,3	--	--	--	2
Small volume over 200 Mcf/d	--	--	--	--	--	--	--	4 f/	4	--	--	--	3
up to 200 Mcf/d	--	--	--	--	--	--	--	7,8 g/	6	--	--	--	3
Firm Industrial Service	--	--	c/	--	--	1	2	--	--	--	--	--	--
Boiler fuel with alternate fuel capability	--	--	2,3	--	1	--	--	--	--	--	--	--	--
Large volume	--	--	--	--	--	--	--	5	--	--	--	2	4
Intermediate volume	--	--	--	--	d/	--	--	6	--	--	--	3	5
Boiler fuel without alternate fuel capability	--	--	4	--	2,3,4	--	--	--	--	--	--	--	--
Over 1500 Mcf/d	--	--	--	--	--	--	--	9	--	--	--	--	4
300-1500 Mcf/d	--	--	--	--	d/	--	--	--	--	--	--	--	5
Feedstock, process and plant protection	--	--	4	--	2,3,4	--	--	13,14 h/	--	--	--	--	7
Small volume over 300 Mcf/d	--	--	(	--	--	--	--	10	--	--	--	--	6
Over 100 Mcf/d	--	2	(4	--	--	--	--	11	--	--	--	--	6
Over 10 Mcf/d	--	3	(	--	--	--	--	--	--	--	--	--	6
Over 2 Mcf/d	--	4	(	--	--	--	--	--	--	--	--	--	6
Industrial Service Firm or Interruptible	--	--	--	1	--	1	--	--	--	--	--	--	--
Steam electric generation	--	--	--	1	--	--	--	--	--	--	--	1	--
Gas engine	--	--	--	--	--	--	--	--	--	--	--	--	--
Over 150 Mcf/month	--	--	--	2	--	--	--	--	--	--	--	--	--
150 Mcf or less/month	--	--	--	3	--	--	--	--	--	--	--	--	--
Large	2	--	--	1	--	--	--	--	--	--	2	2 i/	--
Medium	3	--	--	1	--	--	--	--	(8 i/	--	3	3 i/	--
Small	4	--	--	1	--	--	--	--	(	--	6	3	--
Commercial Service	--	--	2,3 c/	--	--	(	--	--	--	2	--	--	--
Large	4	4	(5	4	--	(e/	--	12	7	--	4	2,3 i/	7
Small	--	5	(	4	--	(	--	14	8 i/	--	5,6	3	8
Residential Service	5	5	(6	5	--	(	3	14	9, i/ 10	3	7,8	3	8
Hospitals, Nursing Homes, etc.	6	--	(	--	--	(e/	--	(13	--	--	(8	--	7
Schools	--	--	--	--	4	e/	--	(	--	--	(	--	7

Schedule III-1
Sheet 2 of 2

STATE GAS CURTAILMENT PLANS 1974-1975 BY STATES

FOOTNOTES AND SOURCE

a/ Curtailment plan of Cheaspeake Utilities Corporation.
b/ Curtailment plan of Delmarva Power and Light Company.
c/ Curtailment 2 applies to customers attached after October 26, 1971. Curtailment 3 applies to other customers with alternate fuel capability.
d/ Curtailment 2 applies when curtailment would not cause layoff of personnel. Curtailment 3 applies when layoff would be a minimum. Curtailment 4 applies when curtailment is required regardless of layoff of personnel.
e/ After all industrial service is curtailed no distinction is made in curtailment of other services.
f/ Curtailment applicable where alternate fuels could meet requirements although facilities and supplies may not be available. Curtailment 2 applies to requirements 3000-10,000 Mcf/d; Curtailment 3 to requirements 1500-3000 Mcf/d. Curtailment 4 to more than 300 Mcf/d but less than 1500 Mcf/d.
g/ Curtailment 7 applies to all interruptible requirements up to 300 Mcf/d. Curtailment 8 applies to all interruptible requirements where propane is the only alternate fuel and is necessary for that portion used for processing.
h/ Curtailment 13 for feedstock and processing needs. Curtailment 14 for plant protection, i.e., pilot lights, minimum heat, etc.
i/ Sales for resale to wholesale customers for commercial, industrial and residential consumption.
j/ Customers that have alternate fuel facilities and supplies.
k/)
l/) Curtailment plans of Cincinnati Gas and Electric Co., Columbia Gas
m/) of Ohio and East Ohio Gas Co. respectively.
n/ Curtailment plan of Oklahoma Natural Gas Co.

Source: November 15, 1974 Survey Report of National Association of Regulatory Utility Commissioners.

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FPC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
New England	5,658	7,707	5,476	2,751	0	0	0	0
Massachusetts	5,130	6,418	4,976	2,751	0	0	0	0
Cambridge Electric Light Co. Kendall Square Plant	500	2,482	415	0	0	0	0	0
Fitchburg Gas & Electric Fitchburg Plant	598	683	598	0	0	0	0	0
Holyoke Gas & Electric Dept. Holyoke Plant	950	935	925	693	0	0	0	0
New Bedford Gas & Edison Light Co. Cannon Street Plant	260	387	216	0	0	0	0	0
Western Mass. Elec. Co. West Springfield Plant	2,822	1,931	2,822	2,058	0	0	0	0
Rhode Island	46	22	0	0	0	0	0	0
Blackstone Valley Elec. Co. Pawtucket Plant	46	22	0	0	0	0	0	0
Vermont	482	1,267	500	0	0	0	0	0
Burlington Elec. Light Dept. Moran Plant	482	1,267	500	0	0	0	0	0
Appalachian	84,111	59,007	33,527	6,633	3,884	438	0	0
Delaware	812	126	69	0	0	0	0	0
City of Dover McKee Run	181	126	69	0	0	0	0	0
Delmarva Power & Light Co. Total	631	0	0	0	0	0	0	0

Schedule IV-1
Sheet 2 of 29

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FPC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Edge Moor	631	0	0	0	0	0	0	0
Kentucky	7,884	5,566	0	0	0	0	0	0
Louisville Gas & Elec. - Total	7,884	5,566	0	0	0	0	0	0
Paddy's Run	1,408	1,222	0	0	0	0	0	0
Cane Run	6,476	4,344	0	0	0	0	0	0
New Jersey	18,273	10,780	5,371	0	0	0	0	0
Atlantic City Elec. Co.								
Deepwater	2,940	1,247	0	0	0	0	0	0
Jersey Central Power								
& Light Co. - Total	1,592	1,657	461	0	0	0	0	0
Sayreville	1,011	660	258	0	0	0	0	0
Gilbert	581	997	203	0	0	0	0	0
Public Service Elec. & Gas -								
Total	13,741	7,876	4,910	0	0	0	0	0
Sewaren	1,369	1,094	208	0	0	0	0	0
Mercer	2,515	2,341	960	0	0	0	0	0
Hudson	7,033	3,767	2,663	0	0	0	0	0
Bergen	2,824	674	1,079	0	0	0	0	0
New York	48,134	28,747	21,782	6,633	3,884	438	0	0
Consolidated Edison Co. of								
N. Y. - Total	33,458	18,935	12,133	2,239	1,663	0	0	0
Waterside	10,673	7,376	3,893	576	0	0	0	0
Ravenswood	4,380	1,540	1,571	311	311	0	0	0
Hell Gate	44	0	0	0	0	0	0	0
East River	10,160	6,665	3,704	762	762	0	0	0
Astoria	8,201	3,354	2,965	590	590	0	0	0

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

ERC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Long Island Lighting Co. -								
Total	4,037	3,064	3,818	295	0	0	0	0
Glenwood	195	961	188	15	0	0	0	0
Far Rockaway	141	690	132	10	0	0	0	0
E. F. Barrett	3,701	1,413	3,498	270	0	0	0	0
Orange and Rockland Utilities -								
Total	10,639	6,748	5,831	4,099	2,221	438	0	0
Lovett	10,466	6,558	5,667	3,984	2,158	426	0	0
Bowline	173	190	164	115	63	12	0	0
Ohio	7,624	10,998	5,776	0	0	0	0	0
Columbus Division of Electricity								
Columbus	924	1,169	812	0	0	0	0	0
City of Hamilton								
Hamilton	1,036	1,902	0	0	0	0	0	0
Cincinnati Gas & Elec. Co.								
West End	5,646	7,320	4,964	0	0	0	0	0
Toledo Edison Co.								
Acme	18	607	0	0	0	0	0	0
Pennsylvania	0	2,018	0	0	0	0	0	0
Philadelphia Electric Co.								
[illegible]	0	2,018	0	0	0	0	0	0

Schedule IV-1
Sheet 4 of 29

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FPC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Appalachian (II)								
Virginia	1,385	772	529	0	0	0	0	0
Danville Water, Gas & Elec. [illegible]	1,385	772	529	0	0	0	0	0
Southeast (III)	203,401	196,617	161,589	132,256	128,271	127,084	102,768	79,096
Alabama	2,463	2,856	1,355	0	0	0	0	0
Alabama Elec. Coop., Inc. McWilliams	997	1,938	727	0	0	0	0	0
Alabama Power Co. - Total	1,466	918	628	0	0	0	0	0
Gadsden 1 & 2	861	635	623	0	0	0	0	0
Chickasaw	605	283	0	0	0	0	0	0
Florida	148,094	[illegible],187	136,663	132,189	128,271	127,084	102,768	79,096
Florida Power Corp. - Total	16,659	16,431 a/	16,729 a/	15,405 a/	15,127 a/	15,048 a/	7,524 a/	0
[illegible] Turner	7,565	7,742	7,565	7,565	7,565	7,565	3,782	0
Higgins	807	1,216	807	807	807	807	404	0
Inglis	2,376	1,365	2,376	2,376	2,376	2,376	1,188	0
Suwannee River	1,611	1,913	1,681	357	79	0	0	0
Bartow	2,655	3,058	2,655	2,655	2,655	2,655	1,328	0
Avon Park	1,645	1,137	1,645	1,645	1,645	1,655	822	0

a/ Gas transported by Florida Gas Transmission allocated to individual plant on the bases of 1973 delivery.

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FPC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Southeast								
Florida								
Florida Power & Light Co. - Total	93,752	97,294	93,752[a/]	93,752[a/]	93,752[a/]	93,752[a/]	79,162[a/]	64,573[a/]
Riviera	15,021	13,391	15,021	15,021	15,021	15,021	12,684	10,346
Sanford	4,105	6,943	4,105	4,105	4,105	4,105	3,466	2,827
Palatka	2,066	4,880	2,066	2,066	2,066	2,066	1,744	1,423
Port Everglades	27,218	25,897	27,218	27,218	27,218	27,218	22,982	18,747
Miami	406	0	406	406	406	406	343	280
Turkey Point	8,850	15,646	8,850	8,850	8,850	8,850	7,473	6,096
Lauderdale	4,079	5,065	4,079	4,079	4,079	4,079	3,444	2,809
Cape Kennedy	18,139	14,958	18,139	18,139	18,139	18,139	15,316	12,493
Cutler	13,868	10,514	13,868	13,868	13,868	13,868	11,710	9,552
City of Gainesville - Total	5,412	3,349	2,786[b/]	2,409[b/]	2,033[b/]	1,770[b/]	1,506[b/]	1,280[b/]
J. R. Kelly	3,336	410	1,717	1,485	1,253	1,091	928	789
Deerhaven	2,076	2,939	1,069	924	780	679	578	491
City of Fort Pierce								
H. D. King	1,790	1,473	1,227	1,062	896	780	664	564
Gulf Power Co.								
Crist	4,614	6,403	4,148	3,593	2,937	2,875	2,875	2,875
Lake Worth Util. Auth.								
Tom G. Smith	2,813	2,994	2,813	2,813	2,813	2,813	2,813	2,813
Lakeland Dept. of Elec. & Water - Total	2,990	4,237	3,536	3,060	2,583	2,244	1,914	1,627
Power Plant # 1	621	2,465	2,059	1,782	1,505	1,306	1,115	948
Lake Parker	2,369	1,772	1,477	1,278	1,078	938	799	679

a/ Gas transported by Florida Gas Transmission allocated to individual plants on the basis of 1973 deliveries.
b/ Total gas available allocated to plants on the basis of 1973 deliveries.

Schedule IV-1
Sheet 5 of 29

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Orlando Utility Commission Total	11,391	7,635	6,363	5,503	4,255	4,429	3,440	2,924
Lake Highland	2,505	2,713	2,261	1,955	1,650	1,436	1,222	1,039
Indian River	8,886	4,922	4,102	3,548	2,605	2,993	2,218	1,885
City of Tallahassee - Total	6,734	4,842	4,035	3,490	2,944	2,563	2,181	1,854
Hopkins	3,210	3,949	3,291	2,846	2,401	2,090	1,779	1,512
Purdom	3,524	893	744	644	543	473	402	342
City of Vero Beach - Vero Beach	1,939	1,529	1,274	1,102	931	810	689	586
Georgia	31,058	42,150	21,415	67	0	0	0	0
Georgia Power Co. - Total	24,955	34,347	17,207	54	0	0	0	0
Yates	2,842	6,459	1,960	6	0	0	0	0
McDonough	7,341	N.A.	5,061	16	0	0	0	0
Atkinson	11,517	22,491	7,941	25	0	0	0	0
Arkwright	3,255	5,397	2,245	7	0	0	0	0
Savannah Elec. Power Co. - Total	6,103	7,803	4,208	13	0	0	0	0
Riverside	3,636	3,855	2,508	8	0	0	0	0
Port Wentworth	2,467	3,948	1,700	5	0	0	0	0
South Carolina	941	911	360	0	0	0	0	0
Carolina Power & Light Co. - Total	941	911	360[a/]	0	0	0	0	0
Weatherspoon	869	102	40	0	0	0	0	0
Lee	72	809	320	0	0	0	0	0

a/ Allocated to individual plants on the basis of 1974 deliveries.

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

	1973	1974	1975	1976	1977	1978	1979	1980
South Carolina - Total	6,532	4,513	1,796	0	0	0	0	0
Carolina Power & Light Co.								
Robinson	3,701	1,858	635	0	0	0	0	0
Duke Power Co. - Total	2,831	2,655	1,161	0	0	0	0	0
Lee	1,918	2,492	733	0	0	0	0	0
Greenwood	913	163	428	0	0	0	0	0
Tennessee	14,313	0	0	0	0	0	0	0
Tennessee Valley Authority								
Allen	14,313	0	0	0	0	0	0	0
Great Lakes	80,656	107,250	54,924	10,287	6,576	3,446	0	0
Illinois	23,339	35,491	18,113	3,021	200	0	0	0
Central Illinois Light Co.								
Total	4,709	3,304	0	0	0	0	0	0
Keystone	1,288	923	0	0	0	0	0	0
Wallace	3,421	2,381	0	0	0	0	0	0
Commonwealth Edison Co. -								
Total	14,286	27,328	14,276	3,021	200	0	0	0
Fisk	807	450	382	51	17	0	0	0
Crawford	3,306	2,270	1,259	146	0	0	0	0
Calumet	3,742	3,977	1,630	405	35	0	0	0
Waukegan	N.A.	8,448	1,720	542	0	0	0	0
Sabrooke	1,426	1,613	1,521	400	37	0	0	0
Dixon	591	2,992	9[illegible]7	0	0	0	0	0
Joliet	4,414	7,578	6,847	1,417	111	0	0	0
Illinois Power Co. - Total	2,250	2,738	1,876	0	0	0	0	0
Wood River	2,178	2,564	1,808	0	0	0	0	0
Hennepin	72	174	68	0	0	0	0	0
Iowa-Illinios Gas & Electric Co.								
Moline	1,659	1,808	1,555	0	0	0	0	0
Union Electric Co.								
Venice #2	2	0	0	0	0	0	0	0

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANT

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Village of Winnetka								
Winnetka	433	313	406	0	0	0	0	0
Indiana	6,859	11,436	3,289	0	0	0	0	0
Frankfort Light & Power Plant								
Frankfort	73	0	0	0	0	0	0	0
Northern Indiana Public Serv. Co. - Total	3,509	8,885	3,289	0	0	0	0	0
Bailly	190	857	178	0	0	0	0	0
Michigan City	3,067	7,238	2,875	0	0	0	0	0
Mitchell	252	790	236	0	0	0	0	0
Southern Indiana Gas/Elec. Co.								
Ohio River	3,277	2,551	0	0	0	0	0	0
Michigan	30,764	37,432	17,767	550	317	145	4	4
Marquette Board of Light & Power								
Shiras	N.A.	245	233	181	181	46	0	0
City of Traverse								
Bayside	138	138	138	111	111	32	4	4
Holland Board of Pub. Wisc.								
J. de Young	349	444	331	258	25	67	0	0
Michigan State University								
Power Plant #65	2,713	3,273	0	0	0	0	0	0
Detroit Edison Co. - Total	25,376	31,229	15,105 a/	0	0	0	0	0
Trenton Channel	9,028	1,693	816 a/	0	0	0	0	0
St. Clair	203	472	227 a/	0	0	0	0	00
Wyandotte North	1,416	1,113	528 a/	0	0	0	0	0
Delray	4,883	18,563	8,972 a/	0	0	0	0	0

a/ Company forecast allocated to individual plants on the basis of 1974 distribution.

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Great Lakes (continued)								
Detroit Edison Co. (Continued)								
Conners Creek	9,070	7,906	3,882[a]	0	0	0	0	0
River Rouge	95	1,395	664[a]	0	0	0	0	0
Marrysville	81	87	16[a]	0	0	0	0	0
City of Wyandotte Dept. Mun. Wyandotte	2,188	2,103	1,980	0	0	0	0	0
Wisconsin	19,694	22,891	15,735	6,716	6,059	3,301	0	0
Marshfield Elec. & Water Dept. Wildwood	417	47	0	0	0	0	0	0
Lake Superior Dist. Power Bay Front	1,130	1,121	1,121	429	0	0	0	0
Madison Gas & Elec. Co. Blount St.	4,944	6,110	3,730	1,687	1,687	937	0	0
Superior Water Light & Power Co. Winslow	356	554	554	212	0	0	0	0
Wisconsin Public Service Corp. - Total	2,387	2,823	1,933	964	964	471	0	0
Pulliam	185	445	[illegible]	212	212	54	0	0
Weston	2,202	2,378	1,661	752	752	417	0	0
Wisconsin Power/Light Co. Blackhawk	2,493	2,898	1,881	851	851	473	0	0

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[a] Company forecast allocated to individual plants on the basis of 1974 distribution.

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FPC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Great Lakes (continued)								
Wisconsin Elec. Power Co. - Total	7,967	9,338	6,516	2,573	2,557	1,420	0	0
Lakeside	6,358	7,575	4,796	2,170	2,170	1,205	0	0
South Oak Creek	16	0	0	0	0	0	0	0
Commerce	1,593	1,763	1,720	403	387	215	0	0
Northern Plains	142,247	123,153	118,785	40,194	4,651	4,165	4,165	4,165
Iowa	51,330	51,671	48,487	13,187	0	0	0	0
Ames Elec. Dept Ames	1,643	1,645	1,645	630	0	0	0	0
Cedar Falls Municipal Utilities Streeter	1,152	1,222	1,222	468	0	0	0	0
Eastern Iowa Light & Power Fair	1,142	1,426	1,071	0	0	0	0	0
Corn Belt Power Corp. Total	2,886	2,886	2,886	1,106	0	0	0	0
Wisdom	1,603	1,307	1,307	501	0	0	0	0
Humbolt	1,283	1,579	1,579	605	0	0	0	0
Interstate Power Co. - Total	1,830	2,927	2,751	0	0	0	0	0
Dubuque	1,660	2,592	2,592	0	0	0	0	0
Kapp	170	335	159	0	0	0	0	0
Iowa Elec. Light/Power Co. - Total	12,962	13,049	12,222	3,585	0	0	0	0
Sutherland	8,060	7,903	7,903	3,027	0	0	0	0
Six Street	1,050	1,697	984	0	0	0	0	0
Boone	1,850	1,458	1,458	558	0	0	0	0
Prairie Creek #4	535	430	502	0	0	0	0	0
Prairie Creek # 1-3	1,467	1,561	1,375	0	0	0	0	0

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Iowa Public Service Co. -								
Total	9,683	9,690	9,690	3,711	0	0	0	0
George Neal # 1 and #2	4,859	5,810	5,810	2,225	0	0	0	0
Big Sioux	1,275	770	770	295	0	0	0	0
Maynard	3,549	3,110	3,110	1,191	0	0	0	0
Iowa Illinois Gas/Elec. Co.								
Riverside	4,102	5,438	3,846	0	0	0	0	0
Iowa Power & Light Co. - Total	13,854	12,487	12,487	3,643	0	0	0	0
Des Moines	11,427	9,512	9,512	3,643	0	0	0	0
Council Bluffs	2,427	2,975	2,975	0	0	0	0	0
Muscatine Power & Water								
Muscatine	2,076	901	667	44	0	0	0	0
Minnesota	43,205	29,553	29,201	10,099	0	0	0	0
Austin Utilities								
Austin	2,534	2,399	2,399	919	0	0	0	0
Interstate Power Co.								
Fox Lake	1,327	2,460	2,460	0	0	0	0	0
Minnesota Power/Light Co.								
Hibbard	498	752	752	288	0	0	0	0
Owatonna Public Utilities								
Central	1,255	1,773	1,773[a/]	613[a/]	0[a/]	0[a/]	0[a/]	0[a/]
Northern States Power Co. -								
Total	33,078	18,393	18,124	6,875	0	0	0	0
Minnesota Valley	579	531	531	137	0	0	0	0
Southeast	533	269	0	0	0	0	0	0
Riverside	6,177	3,139	3,139	1,202	0	0	0	0
Black Dog	11,150	8,894	8,894	[illegible]	0	0	0	0
High Bridge	12,813	4,507	4,507	1,726	0	0	0	0
Red Wing	1,104	192	192	74	0	0	0	0
Wilmarth	722	861	861	330	0	0	0	0

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Northern Plains (continued)								
Minnesota (continued)								
United Power Assoc.								
Elk River	335	218	218	73	0	0	0	0
Rochester Dept. Pub. Util.								
Silver Lake	2,332	2,452	2,452	939	0	0	0	0
New Ulm Pub. Util. Comm.								
New Ulm	1,450	884	884	339	0	0	0	0
Wilmar Mun. Util. Comm.								
Wilmar	396	222	139	53	0	0	0	0
Nebraska	45,136	39,636	38,804	16,030	4,651	4,165	4,165	4,165
Nebraska Pub. Pwr. Dist. - Total	13,381	12,956	12,959	3,978	0	0	0	0
Sheldon	7,545	6,175	6,175	2,365	0	0	0	0
Bluffs	2,853	2,569	2,572	0	0	0	0	0
Lincoln K St.	717	1,212	1,212	464	0	0	0	0
Kramer	2,266	3,000	3,000	1,149	0	0	00	0
Hastings Util. Dept.								
North Denver	1,922	1,468	1,150	0	0	0	0	0
Fremont Dept. of Pub. Util.								
L. D. Wright	1,916	1,494	1,554	749	0	0	0	0
Grand Islands Utilities								
Burdick	3,307	2,313	1,812	1,322	1,197	1,072	1,072	1,072

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Omaha Pub. Pwr. Dist. - Total	18,609	16,100	16,100	6,166	0	0	0	0
Jones St.	1,654	694	694	266	0	0	0	0
North Omaha	16,955	15,406	15,406	5,900	0	0	0	0
Central Neb. Pub. Pwr. Dist. Canaday	5,801	5,305	5,229	3,815	3,454	3,093	3,093	3,093
South Dakota	2,576	2,293	2,293	878	0	0	0	0
Northern States Pwr. Co. - Total	2,576	2,293	2,293	878	0	0	0	0
Pathfinder	1,064	1,389	1,389	532	0	0	0	[illegible]
Lawrence	1,512	904	904	346	0	0	0	[illegible]
Mid- Continent	469,669	490,657	470,016	370,564	375,047	380,937	376,255	[illegible]
Kansas	155,905	149,152	125,203	53,367	47,713	42,765	37,939	33,097
Central Telephone & Utilities Corp. - Total	16,009	15,902	12,748	9,609	8,442	7,416	6,421	5,396
Mullergren	6,282	6,006	4,144	4,084	3,483	2,943	2,342	1,801
Cimmaron River	3,597	4,717	4,717	4,434	4,168	3,918	3,683	3,452
Judson Large	6,130	5,179	3,887	1,091	791	555	396	143
City of Coffeyville Coffeyville	1,637	1,741	1,307	366	261	187	133	78
Empire Dist. Elec. Co. Riverton	5,409	4,383	4,318	0	0	0	0	0
Kansas Gas & Elec. Co. - Total	55,384	55,429	50,295	30,347	27,877	25,742	23,864	21,807
Ripley	8,651	9,560	7,095	0	0	0	0	0
Neosho	4,633	4,642	3,698	0	0	0	0	0
Gill	15,062	14,626	14,144	10,899	10,015	9,251	8,578	7,830
Evans	27,038	26,601	25,358	19,448	17,862	16,491	15,286	13,977

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Kansas City Board of Pub. Util. - Total	16,853	15,580	13,453[a/]	0	0	0	0	0
Quindaro # 3	7,181	3,655	3,191	0	0	0	0	0
Quindaro # 2	2,616	6,219	5,370	0	0	0	0	0
Kaw	7,056	5,666	4,892	0	0	0	0	0
McPherson Water & Elec. Dept.								
McPherson	2,286	2,196	1,515	1,493	1,274	1,076	856	659
Kansas Pwr. & Light Co. - Total	51,318	47,673	38,165	11,386	9,711	8,204	6,530	5,023
Tecumseh	8,238	10,613	6,576	0	0	0	0	0
Abilene	1,654	1,390	959	945	806	681	542	417
Lawrence	25,099	20,316	20,036	0	0	0	0	0
Hutchinson	16,327	15,354	10,594	10,441	8,905	7,523	5,988	4,606
The Central Kansas Pwr. Co.								
Ross Beach 1 & 2	2,058	2,111	1,664	0	0	0	0	0
Wellington Light Dept.								
Wellington	592	394	326	0	0	0	0	0
Winefield Mun. Light & Pwr. Plant								
Winefield	920	636	0	0	0	0	0	0
Wheatland Elec. Co-op, Inc.								
Garden City	3,439	3,107	1,412	166	148	140	135	129
Missouri	46,572	43,482	36,533	0	0	0	0	0
Arkansas-Missouri Power Co.								
Jim Hill	624	1,311	600	0	0	0	0	0
Springfield Utilities								
James River	8,751	8,534	6,986	0	0	0	0	0

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
City of Independence - Power and Light Dept.								
Blue Valley	4,786	4,553	3,821	0	0	0	0	0
Columbia Water & Light Dept.								
Columbia	1,021	910	0	0	0	0	0	0
Kansas City Power & Light Co. - Total	16,600	14,166	13,252	0	0	0	0	0
Grand Avenue	1,134	1,817	905	0	0	0	0	0
Northeast	1,905	1,461	1,521	0	0	0	0	0
Hawthorne	13,561	10,888	10,826	0	0	0	0	0
Missouri Pub. Serv. Co.								
Ralph Green	1,898	1,220	1,515	0	0	0	0	0
St. Joseph Light & Power Co. - Total	12,779	12,539	10,201	0	0	0	0	0
Lake Road	11,119	11,320	8,876	0	0	0	0	0
Edmond Street	1,660	1,219	1,325	0	0	0	0	0
Union Elec. Co.								
Meramec	113	0	0	0	0	0	0	0
Marshall Mun. Utilities								
Marshall	N.A.	249	158	0	0	0	0	0
Oklahoma	267,192	298,023	308,280	317,197	327,334	338,172	338,316	338,460
Grand River Dam Authority								
Chouteau	4,180	5,127	5,157	5,189	5,220	5,251	5,283	5,314

FA-18971

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Plant Plant	1973	1974	1975	1976	1977	1978	1979	1980
Oklahoma Gas/Elec. Co. -								
Total	147,678	156,270	158,223	158,223	158,223	158,223	158,223	158,223
Belle Isle	1,178	1,139	1,153	1,153	1,153	1,153	1,153	1,153
Arbuckle	4,013	4,247	4,300	4,300	4,300	4,300	4,300	4,300
Horseshoe Lake	36,618	42,269	42,797	42,797	42,797	42,797	42,797	42,797
Mustang	34,650	35,062	35,500	35,500	35,500	35,500	35,500	35,500
Seminole	56,718	58,627	59,360	59,360	59,360	59,360	59,360	59,360
Muskogee (Riverbank)	12,387	13,658	13,829	13,829	13,829	13,829	13,829	13,829
Osage	2,114	1,268	1,284	1,284	1,284	1,284	1,284	1,284
Public Service Co. of Oklahoma - Total	101,179	124,732	133,463	142,806	152,802	163,498	163,498	163,498
Comanche	114	7,599	7,979	8,378	8,964	9,591	9,591	9,591
Weleetka	1,736	1,603	1,683	1,767	1,890	2,022	2,022	2,022
Tulsa	26,223	26,488	27,812	29,202	31,246	33,433	33,433	33,433
Southwestern	31,451	27,250	28,612	30,042	32,145	34,395	34,395	34,395
Northeastern	41,655	47,765	48,500	49,000	52,430	56,100	56,100	56,100
Riverside	0	14,027	18,877	24,417	26,127	27,957	27,957	27,957
Western Farmers Elec. Co-op. -								
Total	14,155	11,894	11,437	10,979	11,089	11,200	11,312	11,425
Mooreland	12,060	10,763	10,871	10,979	11,089	11,200	11,312	11,425
Anadarko	2,095	1,131	566	0	0	0	0	0
Gulf Coast	1,770,138	1,763,528	1,591,436	1,455,018	1,371,460	1,310,190	1,252,595	1,198,095
Arkansas	48,893	39,899	22,289	3,366	3,164	2,974	2,796	2,628
Arkansas Elec..Co-op. -								
Total	5,004	2,003	999	0	0	0	0	0
Fitzhugh	741	69	34	0	0	0	0	0
McClellan	3,281	1,508	752	0	0	0	0	0
Bailey	982	426	213	0	0	0	0	0

Schedule IV-1
Sheet 16 of 29

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLA'TS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Gulf Coast (continued)								
Arkansas (continued)								
Arkansas Power/Light Co. -								
Total	43,717	37,762	21,223	3,366	3,164	2,974	2,796	2,328
Lynch	5,486	3,034	1,517	0	0	0	0	0
Ritchie	14,543	17,631	8,816	0	0	0	0	0
Lake Catherine	17,529	12,040	6,020	0	0	0	0	0
Couch	6,159	5,057	4,870	3,366	3,164	2,974	2,796	2,628
Jonesboro Water & Light Plant								
Jonesboro	172	134	67	0	0	0	0	0
Louisiana	387,307	365,482	329,133	285,270	264,569	259,632	255,389	251,268
Alexandria Mun. Elec. & Gas Works								
Plant # 2	4,774	5,008	4,958	4,908	4,859	4,811	4,763	4,715
City of Lafayette Utilities								
System - Total	5,821	6,368	6,318	6,268	6,218	6,169	6,121	6,073
Bonin	4,829	5,045	4,995	4,945	4,895	4,846	4,798	4,750
Rodemacher	992	1,323	1,323	1,323	1,323	1,323	1,323	1.323
Central Louisiana Elec.								
Co. - Total	37,299	34,569	34,402	34,237	34,074	33,912	33,752	333,594
Teche	19,088	17,902	17,902	17,902	17,902	17,902	17,902	17,902
Coughlin	18,211	16,667	16,500	16,335	16,172	16,010	15,850	15,692
Ruston Utility System								
Steam Plant	N. A.	1,011	506	0	0	0	0	0

FA-18971

CURRENT AND PROJECTED GAS CONSUMTPION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Gulf Coast (continued)								
Louisiana (continued)								
Gulf State Utilities Co. - Total	109,308	101,686	86,409	74,695	61,312	59,133	57,131	55,198
Nelson	25,345	16,732	12,695	7,160	613	0	0	0
Louisiana #2	10,767	13,675	13,265	12,867	12,480	12,106	11,743	11,391
Louisiana # 1	28,889	27,352	26,531	25,735	24,963	24,214	23,488	22,783
Willow Glen	44,307	43,927	33,918	28,933	23,256	22,813	21,900	21,024
Lousiana Power & Light Co. - Total	175,589	175,117	167,838	161,822	156,663	154,341	152,356	150,422
Sterlington	26,081	17,104	16,426	13,823	12,376	11,796	11,324	10,871
Nine Mile Point	82,761	91,061	84,460	81,047	77,335	75,593	74,080	72,599
Little Gypsy	66,747	66,952	66,952	66,952	66,952	66,952	66,952	66.952
Minden Water & Light Dept.								
Minden	995	967	0	0	0	0	0	0
New Orleans Pub. Serv. Inc. - Total	31,106	20,405	17,383	0	0	0	0	0
Michoud	24,997	14,464	12,521	0	0	0	0	0
Market Street	1,555	1,534	1,238	0	0	0	0	0
Patterson	4,554	4,407	3,624	0	0	0	0	0
Monroe Utilities Comm.								
Monroe	5,467	5,305	2,738	1,544	132	0	0	0
City of Opelousas								
Opelousas #2	1,176	1,162	0	0	0	0	0	0
Sewer & Water Board								
New Orleans								
Power House Two	1,875	1,771	1,939	530	45	0	0	0

Schedule IV-1
Sheet 18 of 29

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Gulf Coast (continued)								
Louisiana (continued)								
Southwestern Elec. Power Co. - Total	13,897	11,173	5,702	326	326	326	326	326
Lieberman	10,043	7,762	3,996	326	326	326	326	326
Arsenal Hill	3,854	3,411	1,706	0	0	0	0	0
City of Natchitoches								
Natchitoches	N.A.	940	940	940	940	940	940	940
Mississippi	48,596	33,773	21,747	11,556	1,444	496	496	496
Mississippi Power & Light Co. - Total	33,763	23,723	14,328	8,242	1,160	496	496	496
Baxter	8,848	10,937	5,716	3,419	747	496	496	496
Natchez	1,508	353	0	0	0	0	0	0
Delta	6,182	2,185	0	0	0	0	0	0
Wilson	17,225	10,248	8,612	4,823	413	0	0	0
Mississippi Power Co. - Total	11,836	7,690	5,918	3,314	284	0	0	0
Watson	8,678	5,621	4,339	2,430	208	0	0	0
Sweatt	3,158	2,069	1,579	884	76	0	0	0
South Mississippi Elec. Power Association								
Moselle	2,997	2,360	1,501	0	0	0	0	0
Texas	1,285,342	1,324,374	1,218,267	1,154,826	1,102,283	1,047,088	993,014	943,703
Brazos Elec. Power Co-op., - Total	11,980	13,705	12,883	12,110	11,383	10,701	10,058	9,454
North Texas	3,465	2,524	2,373	2,230	2,096	1,971	1,852	1,741
Miller	8,515	11,181	10,510	9,880	9,287	8,730	8,206	7,713

Schedule IV-1
Sheet 20 of 29

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Texas (continued)								
Brownsville Public Utilities Board								
Brownsville	4,864	5,183	3,015	2,918	2,845	2,821	2,772	2,723
Central Power & Light Co. - Total	102,717	101,427	78,465	75,527	72,631	70,950	68,897	66,912
LaPalma (San Benito)	12,720	10,380	7,886	7,632	7,441	7,378	7,250	7,123
Joslin	11,551	10,561	7,163	6,934	6,757	6,700	6,584	6,469
Victoria	24,378	18,664	17,923	17,115	16,416	15,901	15,334	14,791
Nueces Bay	20,437	18,660	13,783	13,248	12,809	12,551	12,219	11,896
Laredo	4,530	4,683	4,402	4,138	3,889	3,656	3,437	3,231
Bates	9,236	8,702	5,726	5,542	5,403	5,357	5,265	5,172
Hill	19,865	18,932	14,858	14,411	13,572	13,117	12,626	12,157
Davis	0	10,845	6,724	6,507	6,344	6,290	6,182	6,073
Bryan Municipal Elec. System								
Bryan	4,919	5,320	5,107	4,903	4,707	4,518	4,338	4,164
City of Austin - Total	25,201	24,479	15,625	15,120	14,742	14,616	14,364	14,113
Decker Creek	12,709	13,094	7,880	7,625	7,435	7,371	7,244	7,117
Seaholm	3,600	2,637	2,232	2,160	2,106	2,088	2,052	2,016
Holly	8,892	8,748	5,513	5,335	5,201	5,157	5,068	4,980
City Pub. Serv. Board of San Antonio	53,399	50,949	39,119	37,856	36,909	36,593	35,963	35,333
OW Sommers 1 - 3	11,660	21,355	13,240	12,813	12,493	12,385	12,172	11,959
Mission Road	2,379	2,509	1,475	1,427	1,392	1,380	1,356	1,332
Leon Creek	1,027	937	637	616	600	596	585	575
Tuttle	8,016	3,943	4,970	4,810	4,689	4,649	4,569	4,489
Braunig	30,317	22,205	18,797	18,190	17,735	17,583	17,281	16,978

FA-18971

CURRENT AND PROJECTED CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Texas (continued)								
Dallas Power & Light Co. -								
Total	85,653	80,916	77,680	73,795	69,367	65,204	61,291	57,613
Dallas	4,757	3,635	3,490	3,315	3,116	2,929	2,753	2,588
Mountain Creek	37,882	26.610	25,546	24,269	22,813	21,444	20,157	18,948
North Lake	24,519	24,025	23,064	21,911	20,596	19,360	18,198	17,106
Hubbard	10,689	22,710	21,801	20,710	19,467	18,299	17,201	16,168
Parkdale	7,806	3,936	3,779	3,590	3,375	3,172	2,982	2,803
Benton Municipal Utilities								
Benton	4,806	6,137	5,892	5,656	5,430	5,212	5,003	4,804
El Paso Elec. Co.								
Newman	18,214	17,201	16,169	15,199	14,287	13,430	12,624	11,866
Gulf States Utilities Co. -								
Total	103,329	122,536	117,103	111,914	106,959	102,225	97,703	93,384
Sabine	48,360	69,423	66,446	63,980	61,421	58,964	56,606	54,341
Lewis Creek	28,948	29,863	28,370	26,951	25,604	24,324	23,107	21,952
Neches	26,021	23,250	22,087	20,983	19,934	18,937	17,990	17,091
Houston Lighting & Power Co. - Total	364,951	367,983	353,541	336,141	318,731	301,932	286,049	271,030
Bertron	42,734	35,830	34,755	33,365	31,697	29,795	28,007	26,327
Robinson	93,524	132,851	127,536	121,160	116,314	111,661	107,195	102,907
Parish	62,642	51.885	49,810	47,319	44,480	41,811	39,303	36,944
Wharton	14,970	20,565	19,742	18,755	17,630	16,572	15,578	14,644
Clarke	2,308	543	510	480	451	424	398	374
Greens Bayon	20,308	17,986	17,267	16,403	15,419	14,494	13,624	12,807
Webster	28,405	18,269	17,538	16,661	15,662	14,722	13,839	13,008
Deepwater	13,211	6,906	6,561	6,167	5,797	5,449	5,122	4,814
Cedar Bayon	86,849	83,148	79,822	75,831	71,281	67,004	62,983	59,205

FA-18971

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billion of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Gulf Coast (continued)								
Texas (continued)								
Garland Municipal Power & Light - Total	9,193	10,031	9,484	8,942	8,406	7,901	7,427	6,981
Olinger	7,396	7,260	6,824	6,415	6,030	5,668	5,328	5,008
Newman	1,797	2,771	2,660	2,527	2,376	2,233	2,099	1,973
Lubbock Power/Light - Total	7,478	7,104	7,032	6,962	6,893	6,686	6,486	6,291
Holly Avenue	3,368	3,251	3,218	3,186	3,154	3,060	2,968	2,879
Power Station # 2	4,110	3,853	3,814	3,776	3,739	3,626	3,518	3,412
Lower Colorado River Auth. - Total	25,855	24,295	19,332	18,708	18,241	18,085	17,773	17,462
Gideon	25,844	18,958	16,023	15,506	15,119	14,990	14,731	14,473
Granite Shoals # 1	N.A.	5,337	3,309	3,202	3,122	3,095	3,042	2,989
Comal	11	N.A.	0	0	0	0	0	0
Medina Elec. Co-op, Inc.								
Pearsall	4,737	5,652	2,937	2,842	2,771	2,747	2,700	2,653
Southwestern Pub. Service Co. - Total	72,118	70,731	62,678	51,696	50,602	48,911	47,282	45,714
Plant X	21,068	16,746	9,853	0	0	0	0	0
Jones	11,580	15,076	14,925	14,776	14,628	14,336	14,049	13,768
Nichols	19,740	21,581	21,149	20,726	20,312	19,499	18,719	17,970
Moore County	3,223	3,971	3,892	3,814	3,737	3,588	3,444	3,307
Riverview	2,739	2,190	2,059	1,935	1,819	1,710	1,607	1,510
East Plant	6,185	2,639	2 613	2,586	2,561	2,535	2,510	2,484
Denver City	7,583	8,528	8,107	7,859	2,545	7,243	6,953	6,675

Schedule IV-1
Sheet 22 of 29

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Texas (continued)								
Texas Elec. Service Co. -								
Total	127,849	137,173	132,733	128,752	124,887	117,396	110,345	103,731
Morgan Creek	43,261	46,226	44,839	43,494	42,189	39,658	37,278	35,042
North Main	3,664	2,846	2,761	2,678	2,597	2,442	2,295	2,157
Handley	25,221	19,043	18,472	17,918	17,380	16,337	15,351	14,436
Graham	26,243	28,957	28,088	27,246	26,428	24,843	23,352	21,951
Eagle Mountain	17,609	17,944	17,081	16,568	16,071	15,107	14,201	13,349
Permian Basin	11,783	22,157	21,492	20,848	20,222	19,009	17,868	16,796
Wichita Falls	68	N.A.	0	0	0	0	0	0
Texas Power & Light Co. -								
Total	164,117	161,498	153,422	145,752	138,463	128,772	119,756	111,375
Collin	6,181	4,271	4,057	3,855	3,662	3,406	3,167	2,945
Lake Creek	20,187	16,693	15,858	15,065	14,312	13,310	12,379	11,512
Valley	31,973	31,851	30,258	28,746	27,308	25,397	23,618	21,966
Trinidad	16,852	14,146	13,439	12,767	12,128	11,279	10,490	9,756
Tradinghouse Creek	44,508	59,020	56,069	53,265	50,602	47,060	43,765	40,702
Stryker Creek	31,366	32,281	30,667	29,134	27,677	25,740	23,938	22,262
River Crest	13,050	3,236	3,074	2,920	2,774	2,580	2,399	2,232
West Texas Utilities Co. -								
Total	31,612	36,057	34,613	32,882	30,908	29,053	27,310	25,672
Abilene	177	804	771	732	688	647	608	572
Concho	1,192	1,289	1,237	1,175	1,104	1,038	976	917
Lake Pauline	2,532	2,050	1,968	1,870	1,758	1,653	1,554	1,461
Fort Phantom	-	5,233	5,024	4,773	4,487	4,218	3,965	3,727
San Angelo	4,768	7,469	7,170	6,811	6,402	6,018	5,657	5,318
Oak Creek	4,325	4,818	4,625	4,394	4,130	3,882	3,649	3,430
Paint Creek	9,979	5,814	5,581	5,302	4,984	4,684	4,403	4,139
Rio Pecos	8,639	8,580	8,237	7,825	7,355	6,913	6,498	6,108

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Texas (continued)								
Greenville Elec. Dept.								
Greenville	N.A.	1,216	1,143	1,074	1,010	949	892	839
Southwestern Elec. Power Co. -								
Total	62,350	74,781	70,294	66,077	62,111	58,386	54,881	51,589
Knox Lee	11,882	21,825	20,516	19,285	18,127	17,040	16,017	15,056
Lone Star	2,524	1,014	953	896	842	792	744	700
Wilkes	47,944	51,942	48,825	45,896	43,142	40,554	38,120	35,833
Rocky Mountain	53,067	59,471	47,623	26,459	21,560	17,975	15,211	12,810
Colorado	48,497	55,958	43,536	22,411	17,512	13,927	11,163	8,762
Colorado Springs Dept. of Public Utilities - Total	9,716	8,723	7,135	2,012	1,666	1,666	1,666	1,664
Drake	6,462	5,151	4,367	308	32	32	32	32
Birdsall	3,254	3,072	2,768	1,704	1,634	1,634	1,634	1,632
Central Tela Util. Corp. -								
Total	5,645	3,349	3,349	2,705	1,874	1,106	514	0
Pueblo	3,023	1,706	1,706	1,370	949	560	260	0
Clark	2,622	1,643	1,643	1,335	925	546	254	0
Lamar Util. Board								
Lamar	1,093	243	243	197	136	80	37	0
Public Service Co. of Colorado								
Total	32,043	44,143	32,809	17,497	13,836	11,075	8,946	7,098
Arapahoe	7,200	8,682	5,576	654	360	360	360	360
Cherokee	10,783	17,388	9,169	2,338	1,957	1,957	1,957	1,957

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Colorado (continued)								
Public Service of Colorado - Total (continued)								
Cameo	2,173	2,340	2,340	1,878	1,302	768	357	0
Valmont	5,335	9,705	9,705	7,792	5,399	3,187	1,481	0
Zuni	6,316	5,958	5,958	4,781	4,781	4,781	4,781	4,781
Commanche	6	16	7	0	0	0	0	0
Alamosa	230	54	54	54	37	22	10	0
Montana	1,023	630	540	501	501	501	501	501
Montana Dakotas Util. Co.								
Lewis & Clark	39	39	39	0	0	0	0	0
Montana Power Co. - Total	984	591	501	501	501	501	501	501
Corette	511	501	501	501	501	501	501	501
Bird	473	90	0	0	0	0	0	0
Utah	3,547	2,883	3,547	3,547	3,547	3,547	3,547	3,547
Utah Power & Light Co. - Total	3,547	2,883	3,547	3,547	3,547	3,537	3,547	3,547
Jordan	1,065	N.A.	1,065	1,065	1,065	1,065	1,065	1,065
Hale	168	280	168	168	168	168	168	168
Gadsby 1, 2, 3	2,314	2,603	2,314	2,314	2,314	2,314	2,314	2,314
Pacific Southwest	624,648	443,953	231,753	77,410	76,187	75,190	74,748	74,123
Arizona	49,858	31,314	17,903	0	0	0	0	0
Arizona Public Service Co. - Total	14,268	9,404	5,123	0	0	0	0	0
Saguaro	4,589	2,801	1,648	0	0	0	0	0
Phoenix	1,295	234	465	0	0	0	0	0
Octillo	5,701	5,094	2,047	0	0	0	0	0
Cholla	0	14	0	0	0	0	0	0
Yucca	2,683	1,261	963	0	0	0	0	0

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Arizona (continued)								
Arizona Elec. Power Co-op., Inc.								
Apache	4,103	3,187	1,473	0	0	0	0	0
Salt River Project -								
Total	13,469	7,066	4,837	0	0	0	0	0
Kyrene	3,034	1,259	1,090	0	0	0	0	0
Cross Cut	869	44	312	0	0	0	0	0
Aqua Fria	9,566	5,763	3,435	0	0	0	0	0
Tucson Gas & Elec. Co. -								
Total	18,018	11,657	6,470	0	0	0	0	0
Irvington	13,507	7,560	4,850	0	0	0	0	0
De Moss Petrie	4,511	4,097	1,620	0	0	0	0	0
California	468,459	308,844	127,905	4,615	3,392	2,395	1,953	1,328
Burbank Public Service Dept.								
Burbank	1,875	1,747	605	0	0	0	0	0
City of Glendale								
Glendale	1,839	1,528	593	0	0	0	0	0
Imperial Irrigation Dist.								
El Centro	5,564	4,623	1,795	0	0	0	0	0
L. A. Dept. of Water & Pwr.	42,291	31,065	13,642	0	0	0	0	0
Haynes	12,658	14,443	4,083	0	0	0	0	0
Scattergood	8,880	9,141	2,864	0	0	0	0	0
Valley	18,824	6,213	6,072	0	0	0	0	0
Harbor	1,929	1,268	623	0	0	0	0	0

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
Pacific Southwest (continued)								
California (continued)								
Pasadena Water/Power Dept.	2,193	1,328	707	0	0	0	0	0
Glenarm	232	107	75	0	0	0	0	0
Broadway	1,961	1,721	632	0	0	0	0	0
Pacific Gas & Elec. Co.	269,747	148,665	61,998	0	0	0	0	0
Kern	64	143	15	0	0	0	0	0
Hunters Point	17,501	7,876	4,022	0	0	0	0	0
Humboldt Bay	3,506	1,708	805	0	0	0	0	0
	42,172	22,110	9,692	0	0	0	0	0
Avon	467	4,909	107	0	0	0	0	0
Martinez	2,650	6,404	609	0	0	0	0	0
Morro Bay	38,986	20,074	8,939	0	0	0	0	0
Potrero	14,520	9,448	3,366	0	0	0	0	0
Pittsburgh	74,281	34,388	17,070	0	0	0	0	0
Oleum	5,174	4,403	1,189	0	0	0	0	0
Moss Landing	70,426	37,202	16,184	0	0	0	0	0
San Diego Gas Elec. Co. - Total	23,645	25,933	7,627	0	0	0	0	0
Station B	921	345	297	0	0	0	0	0
South Bay	14,813	15,906	4,778	0	0	0	0	0
Silver Gate	5,229	1,506	1,687	0	0	0	0	0
Encina	2,682	8,176	865	0	0	0	0	0
Southern California Edison Co. - Total	121,305	93,455	40,938	4,615	3,392	2,395	1,953	1,328
San Bernadino	6,851	4,831	2,210	0	0	0	0	0
Etiwanda	10,016	9,942	3,231	0	0	0	0	0
Redondo Beach	44,646	27,162	14,403	0	0	0	0	0

Schedule IV-1
Sheet 27 of 29

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
California (continued)								
Mandalay	7,080	4,458	4,723	4,615	3,392	2,395	1,953	1,328
Highgrove	163	184	52	0	0	0	0	0
Alamitos Bay	15,817	10,124	5,232	0	0	0	0	0
El Segundo	3,363	11,942	1,085	0	0	00	0	0
Cool Water	11,129	10,822	2,557	0	0	0	0	0
Ormond Beach	11,359	2,499	3,935	0	0	00	0	0
Long Beach	39	31	13	0	0	00	0	0
Huntington Beach	10,842	11,460	3,497	0	0	0	0	0
Nevada	41,871	36,519	25,592	18,146	18,146	18,146	18,146	18,146
Nevada Power Co.	18,746	12,429	6,731	0	0	0	0	0
Clark	13,972	8,803	5,017	0	0	0	0	0
Sunrise	4,774	3,626	1,714	0	0	0	0	0
Southern California Edison - Mohave	4,979	5,011	715	0	0	0	0	0
Sierra Pacific Power Co.	18,146	19,079	18,146	18,146	18,146	18,146	18,146	18,146
Tracy	2,957	3,653	2,957	2,957	2,957	2,957	2,957	2,957
Ft. Churchill	15,189	15,426	15,189	15,189	15,189	15,189	15,189	15,189
New Mexico	64,460	67,276	60,35	54,649	54,649	54,649	54,649	54,649
Arizona Public **Service Co.** Four Corners	0	1,943	1,943[a/]	1,943[a/]	1,943[a/]	1,943[a/]	1,943[a/]	1,943[a/]
Farmington Elec. Util. Animas	1,529	1,693	1,693	1,693	1,693	1,693	1,693	1,693
Community Public Service Co. Lourdsburg	3,031	2,337	1,088	0	0	0	0	0

a/ Supplier(s) unknown. Assumed to be intrastate.

CURRENT AND PROJECTED GAS CONSUMPTION FOR ELECTRIC UTILITY STEAM GENERATING PLANTS

1973 - 1980
(Billions of Btu's)

FRC Region State Electric Utility Plant	1973	1974	1975	1976	1977	1978	1979	1980
New Mexico (continued)								
El Paso Elec. Co.								
Rio Grande	9,591	7,260	3,444	0	0	0	0	0
Lea County Elec. Co-op.								
Lovington	2,516	3,541	3,541	3,541	3,541	3,541	3,541	3,541
New Mexico Elec. Service Co.								
Maddox	5,002	6,096	6,096	6,096	6,096	6,096	6,096	6,096
Plains Elec. Generating Co.								
Algodones	3,264	3,030	1,172	0	0	0	0	0
Public Service Co. of New								
Mexico - Total	18,848	18,082	18,082	18,082	18,082	18,082	18,062	18,082
Person	5,664	5,512	5,512	5,512	5,512	5,512	5,512	5,512
Reeves Station	12,366	12,312	12,312	12,312	12,312	12,312	12,312	12,312
Prager	818	258	258	258	258	258	258	258
Southwestern Public Service								
Co. - Total	20,679	23,294	23,294	23,294	23,294	23,294	23,294	23,294
Roswell	1,208	948	948	948	948	948	948	948
Cunningham	17,735	19,531	19,531	19,531	19,531	19,531	19,531	19,531
Carlsbad	1,736	2,815	2,815	2,815	2,815	2,815	2,815	2,815
Pacific Northwest	2,495	914	1,495	1,495	1,495	1,495	1,495	1,495
Oregon	2,495	914	1,495	1,495	1,495	1,495	1,495	1,495
Pacific Power/Light Co.								
Lincoln	1,914	914	914	914	914	914	914	914
Portland Gen. Elec. Co.								
Station L	581	-	581	581	581	581	581	581
Total United States	3,436,091	3,252,257	2,716,624	2,123,067	1,989,131	1,920,920	1,827,241	1,741,340

Schedule IV-2

RESERVES ADDITIONS, NET WITHDRAWALS AND TOTAL PROVED RESERVES OF NATURAL GAS CONTRACTED TO INTERSTATE PIPELINE COMPANIES IN THE UNITED STATES

1963 - 1973

(Volumes in Trillions of Cubic Feet at 14.73 Psia)

Year	Reserves Additions (1)	Net Withdrawals (2)	Finding-Production Ratio: Annual (3)	Finding-Production Ratio: Three-Year Moving Average a/ (4)	Total Reserves, End of Year (5)	Reserves-to-Production Ratio (6)
1963	n.a.	9.4	n.a.	n.a.	188.5	20.2
1964	10.7	10.0	1.1	n.a.	189.2	18.9
1965	13.3	10.4	1.3	1.2	192.1	18.5
1966	14.1	11.1	1.3	1.3	195.1	17.5
1967	14.8	11.8	1.2	1.1	198.1	16.8
1968	9.5	12.6	0.8	0.8	195.0	15.5
1969	6.0	13.4	0.5	0.4	187.6	14.0
1970	0.1	14.1	n/	0.2	173.6	12.3
1971	1.9	14.2	0.1	n/	161.3	11.4
1972	(0.2)	14.2	n/	0.1	146.9	10.3
1973 p/	1.2	13.7	0.1	n/	134.4	9.8
1974 p/	(1.0)	12.9	-		120.4	9.3

n.a. - not available.
n/ Negligible.
p/ Preliminary.

a/ Based on three-year moving averages of the data in Columns (1) and (2), centered in the middle year.

Source: Statement of John N. Nassikas, Chairman, Federal Power Commission, Hearings before the Subcommittee on Communications and Power of the Committee on Interstate and Foreign Commerce, U.S. House of Representatives, June 11, 1974; FPC News Release No. 21456.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	 Oil (5)	 Coal (6)	 Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
New England								
Connecticut	--	--						
Maine	--	--						
Massachusetts								
Cambridge Elec. Light Co.								
Kendall Square	500.00	67.45	41.2	58.8	--	100.0	C(P)OG	Oil primary fuel, gas alternate.
Fitchburg Gas & Elec.								
Fitchburg	596.00	32.39	44.1	55.9	--	100.0	C(P)OG	Oil primary fuel, gas altenate.
Holyoke Gas & Elec. Dept.								
Holyoke	949.70	30.00	50.7	49.3	--	100.0	C(SP)OG	Oil and gas both burned.
New Bedford Gas & Edison Light Co.								
Cannon Street	260.00	93.00	11.3	88.7	--	100.0	C(P)OG	Oil primary fuel, gas alternate.
Western Mass. Elec. Co.								
West Springfield	2,822.00	209.64	17.7	82.3	--	100.0	OG	Oil primary fuel, coal alternate, gas alternate in 1 of 3 boiler units.
New Hampshire	--	--						
Rhode Island								
Blackstone Valley Elec. Co.								
Pawtucket	43.69	33.50	42.0	58.0	--	100.0	C(P)OG	Oil primary fuel, gas alternate.
Vermont								
Burlington Elec. Light Dept.								
Moran	482.00[a]	70.00	55.6	--	44.4	100.0	C(S)	Coal primary fuel, gas alternate.
Appalachian								
Delaware								
City of Dover								
McKee Run	181.40	37.50/182.50	5.3	89.9	4.8	100.0	C(SP)OG	Plant may burn either oil, gas or coal.
Delmarva Power & Light Co.								
Edge Moor	641.00	767.80	--	100.0	--	100.0	C(P)OG	Oil primary fuel, gas alternate in 3 of 4 units.
District of Columbia	--	--						
Kentucky								
Louisville Gas & Elec.								
Paddy's Run	1,373.70	337.50	52.4	--	47.6	100.0	C(P)G	Coal primary fuel, gas alternate.
Cane Run	6,318.09	1,017.00	12.3	--	87.7	100.0	C(P)G	Coal primary fuel, gas alternate.

[a] Gas consumption from Steam-Electric Plant Factors.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	 Oil (5)	 Coal (6)	 Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Maryland	--	--						
New Jersey								
Atlantic City Elec. Co.								
Deepwater	2,854.77	308.30	7.5	66.9	25.6	100.0	C(P)OG	Oil primary fuel with gas as alternate in 1 of 8 boiler units.
Jersey Central Power & Light Co.								
Sayreville	996.00	346.80	3.3	96.7	--	100.0	C(SP)OG	Oil primary fuel, coal/gas alternates.
Gilbert	564.00	370.10/496.10	15.7	84.3	--	100.0	C(P)OG	Oil primary fuel, coal/gas alternates.
Public Service Elec. & Gas								
Sewaren	1,324.01	820.00	3.0	96.1	0.9	100.0	C(P)OG	Oil primary fuel, coal/gas alternates.
Mercer	2,439.40	652.80	8.4	--	91.6	100.0	C(P)G	Coal primary fuel, gas alternate.
Hudson	6,814.99	1,114.50	10.9	41.1	48.0	100.0	C(P)OG	Oil primary fuel, coal/gas alternates.
Bergen	2,739.00	650.40	2.3	76.1	21.6	100.0	C(P)OG	Oil primary fuel, coal/gas alternates.
New York								
Consolidated Edison Co. of N.Y.								
Waterside	10,381.98	712.25	41.8	58.2	--	100.0	OG	Oil primary fuel, gas alternate.
Ravenswood	4,261.00	1,827.70	2.1	97.9	--	100.0	C(P)OG	Oil primary fuel, gas alternate.
Hell Gate	43.00	511.25	--	100.0	--	100.0	OG	Oil primary fuel, gas alternate.
East River	9,882.97	833.65	14.9	85.1	--	100.0	OG	Oil primary fuel, gas alternate.
Astoria	7,977.98	1,550.6/2,350.6	5.7	94.3	--	100.0	C(P)OG	Oil primary fuel, gas alternate.
Long Island Lighting Co.								
Glenwood	190.00	380.27	11.9	88.1	--	100.0	C(P)OG	Oil primary fuel, gas alternate.
Far Rockaway	137.00	113.64	15.2	84.8	--	100.0	C(P)OG	Oil primary fuel, gas alternate.
E.F. Barrett	3,600.00	375.00	7.9	92.1	--	100.0	C(P)OG	Oil primary fuel, gas alternate.
Orange and Rockland Utilities								
Lovett	10,170.96	495.12	29.4	62.2	8.4	100.0	C(P)OG	Coal, oil or gas may be burned.
Bowline	168.00	621.00/1,242.00	0.4	99.6	--	100.0	OG	Oil primary fuel, gas alternate.
Ohio								
Columbus Division of Electricity								
Columbus	905.93	43.50	79.9	--	20.1	100.0	C(S)G	Gas primary fuel, coal alternate.
City of Hamilton								
Hamilton	1,036.29	83.50/133.50	45.2	3.3	51.5	100.0	C	Gas & Coal primary fuels, oil alternate in 3 of 6 boiler units.
Cincinnati Gas & Elec. Co.								
West End	5,595.79	219.25	100.0	--	--	100.0	G	Gas considered to be only fuel since coal equipment dismantled.
Toledo Edison Co.								
Acme	18.00	321.00	4.4	10.4	85.2	100.0	C(P)O	Coal primary fuel, oil/gas also burned

ALTERNATIVE FUEL BURNING CAPABILITY OF
ELECTRIC UTILITY POWER PLANTS BURNING GAS

FPC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974				Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
			Gas (4)	Oil (5)	Coal (6)	Total (7)		
Pennsylvania								
Philadelphia Elec. Co.								
Bardadoes	2,018.00[a]	155.00	32.8	67.2	--	100.0	C(P)OG	Oil primary fuel, coal/gas alternates.
Virginia								
Danville Water, Gas & Elec.								
Brantly	1,331.96	29.00	33.4	--	66.6	100.0	C(P)OG	Coal primary fuel, gas alternate.
West Virginia	--	--						
Southeast								
Alabama								
Alabama Elec. Coop. Inc.								
McWilliams	969.02	40.00	87.9	--	12.1	100.0	C(S)G	Gas primary fuel, coal alternate.
Alabama Power Co.								
Gadsden 1 & 2	836.45	138.00	8.0	0.1	91.9	100.0	C(P)G	Coal primary fuel, gas alternate.
Chickasaw	576.03	138.00	6.0	0.6	93.4	100.0	C(P)G	Coal primary fuel, gas alternate.
Florida								
Florida Power Corp.								
G.E. Turner	7,163.98	201.60	68.7	31.3	--	100.0	OG	Either gas or oil may be burned.
Higgins	760.00	138.00	14.7	85.3	--	100.0	OG	
Inglis	2,254.00	53.80	94.8	5.2	--	100.0	OG	
Suwannee River	1,564.00	147.00	19.[illegible]	80.6	--	100.0	OG	
Bartow	2,521.00	494.40	10.6	89.4	--	100.0	OG	
Avon Park	1,558.00	61.00	45.2	54.8	--	100.0	OG	
Florida Power & Light Co.								
Riviera	15,020.98	739.79	43.0	57.0	--	100.0	OG	Oil primary fuel, gas alternate.
Sanford	4,105.00	1,029.04	19.5	80.5	--	100.0	OG	
Palatka	2,066.00	109.60	83.8	16.2	--	100.0	OG	
Port Everglades	27,217.96	1,255.00	39.5	60.5	--	100.0	OG	
Miami	406.00	46.00	--	100.0	--	100.0	OG	
Turkey Point	8,849.98	1,564.00	33.2	66.8	--	100.0	OG	
Lauderdale	4,079.00	312.50	36.9	63.1	--	100.0	OG	
Cape Kennedy	18,138.98	804.78	37.7	62.3	--	100.0	OG	
Cutler	13,867.97	351.50	85.1	14.9	--	100.0	OG	
Gainesville Utilities Dept.								
J.R. Kelly	3,208.00	99.00	24.3	75.7	--	100.0	N/A	5 of 5 boilers capable of burning oil, 3 of 5 capable of burning gas.
Deerhaven	1,996.00	81.00	50.9	49.1	--	100.0	N/A	May burn oil or gas.

a/ 1974 volume from ADR printout.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FPC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Florida (Continued)								
Fort Pierce Utilities Authority								
H.D. King	1,699.50	46.00/106.0	38.4	61.6	--	100.0	OG	4 of 4 boilers capable of burning oil, 2 of 4 boilers capable of burning gas.
Gulf Power Co.								
Crist	4,613.89	1,229.00	13.3	--	86.7	100.0	C(S)OG	3 of 6 boilers coal primary, gas alternate, 3 of 6 boilers gas primary, oil alternate.
Lake Worth Util. Auth.								
Tom G. Smith	2,673.62	74.08	99.6	0.4	--	100.0	G	Gas primary fuel, 4 of 4 boilers capable of burning #5 oil, 2 of 4 could burn #6 with modifications.
Lakeland Dept. of Elec. & Water								
Power Plant #3	591.00	100.00/214.70	42.4	57.6	--	100.0	OG	Oil primary fuel, gas alternate.
Lake Parker	2,255.90	120.00	40.8	59.2	--	100.0	OG	Oil primary fuel, gas alternate.
Orlando Utility Commission								
Lake Highland	2,381.28	96.00	99.0	1.0	--	100.0	OG	Gas primary fuel, oil alternate.
Indian River	8,438.93	603.04	16.6	83.4	--	100.0	OG	Oil primary fuel, gas alternate, 22% boiler derating on 1 of 2 boilers when gas burned.
City of Tallahassee								
Hopkins	3,074.70	75.00	87.0	13.0	--	100.0	OG	Gas primary fuel, oil alternate.
Purdhom	3,375.70	130.00	15.2	84.8	--	100.0	OG	Gas primary fuel, oil alternate.
Verd Beach Municipal Auth.								
Vero Beach	1,938.75	62.00/124.15	47.0	53.0	--	100.0	OG	Gas primary fuel, oil alternate.
Georgia								
Georgia Power Co.								
Yates	2,762.00	680.00/1,487.50	11.2	0.2	88.6	100.0	C(P))	
McDonough	7,126.99	598.00	--	N.A.	--	--	C(P)G)	Both coal and gas burned in all units
Atkinson	11,181.88	258.00	44.6	11.4	44.0	100.0	C(P)G)	
Arkwright	3,163.00	181.00	34.2	0.1	65.7	100.0	C(P)G)	
Savannah Elec. Power Co.								
Riverside	3,533.20	118.50	83.6	16.4	--	100.0	OG)	N.A.
Port Wentworth	2,397.00	323.00	23.8	74.8	1.4	100.0	COG)	
North Carolina								
Carolina Power & Light Co.								
Weatherspoon	840.80	165.50	1.1	2.0	96.9	100.0	C(P)G	Coal primary fuel, gas alternate in 1 of 3 boilers.
Lee	70.26	402.45	3.6	0.5	95.9	100.0	C(P)	Coal primary fuel, gas alternate.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
South Carolina								
Carolina Power & Light Co.								
Robinson	3,596.30	975.32	17.9	0.9	81.2	100.0	C(P)G	Coal primary fuel, gas alternate.
Duke Power Co.								
Lee	1,861.66	345.00	13.0	0.1	86.9	100.0	C(P)G	Coal primary fuel, gas alternate.
Greenwood	886.15	34.10	76.5	23.5	--	100.0	C(P)OG	Oil and gas both burned.
Tennessee								
Tennessee Valley Auth.								
Allen	13,657.59	990.00	--	--	100.0	100.0	CG	Coal primary fuel, gas alternate.
Great Lakes								
Illinois								
Central Illinois Light Co.								
Keystone	1,288.47	50.00	100.0	--	--	100.0	C(S)G	Gas primary fuel. Coal capabilities in 1 of 4 boilers, major revision would be necessary for other 3 boilers.
Wallace	3,421.33	305.00	25.8	--	74.2	100.0	C(P)G	Gas and coal capabilities, coal in 2 of 10 boilers with 10% boiler derating.
Commonwealth Edison Co.								
Fisk	773.00	547.00	2.5	--	97.5	100.0	C(P)G	Coal primary fuel, gas alternate in 1 of 3 boiler units.
Crawford	3,216.00	702.00	8.2	--	91.8	100.0	C(P)G	Coal primary fuel, gas alternate in 2 of 8 boiler units.
Calumet	3,640.00	107.00	100.0	--	--	100.0	C(P)G	Gas primary fuel, major plant expenditures necessary to burn coal again.
Waukegan	6,448.26[a]	933,99	21.3	0.1	78.6	100.0	C(P)G	Coal primary fuel, gas alternate.
Sabrooke	1,382.00	146.00	31.0	15.8	53.2	100.0	C(SP)G	Coal primary fuel, gas alternate.
Dixon	573.00	119.00	40.2	--	59.8	100.0	C(P)G	Coal primary fuel, gas alternate.
Joliet	4,281.00	1,787.00	10.1	--	89.9	100.0	C(P)G	Coal primary fuel, gas alternate.
Illinois Power Co.								
Wood River	2,077.94	650.10	12.3	12.6	75.1	100.0	CG	Coal primary fuel, gas alternate in 4 of 5 boiler units (post-1973 3 of 5 will burn oil).
Hennepin	69.45	306.25	1.3	--	98.7	100.0	CG	Coal primary fuel, gas alternate.
Iowa-Illinois Gas & Elec. Co.								
Moline	1,597.00	99.14	58.9	41.1	--	100.0	C(S)OG	Gas primary fuel, oil alternate in 3 of 6 boiler units. Coal alternate in 3 of 6 units with some modification necessary.

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[a] 1974 consumption from ADR printout.

ALTERNATIVE FUEL BURNING CAPABILITY OF
ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Illinois (Continued)								
Union Electric Co.								
Venice #2	2.00	474.00	--	16.7	83.3	100.0	C(P)G	Coal primary fuel, gas alternate, switching to oil as primary.
Village of Winnetka								
Winnetka	424.98	25.50	63.7	--	36.3	100.0	C(S)	Coal primary fuel, gas alternate.
Indiana								
Frankfort Light & Power Plant								
Frankfort	73.02	32.50	--	1.7	98.3	100.0	C(S)	N.A.
Northern Indiana Public Serv. Co.								
Bailly	189.88	615.60	2.9	--	97.1	100.0	CG	Coal primary fuel gas alternate.
Michigan City	3,067.46	735.99	30.8	--	69.2	100.0	C(P)	Coal and gas both burned. Some conversion necessary to burn coal in all boilers.
Mitchell	251.89	529.40	2.4	--	97.6	100.0	C(P)	Coal primary fuel, gas alternate in 3 of 4 boiler units.
Southern Indiana Gas/Elec. Co.								
Ohio River	3,241.30	121.50	80.5	19.5	--	100.0	OG	N.A.
Michigan								
Marquette Board of Light & Power								
Shiras	245.00[a/]	N.A.	15.3	84.7	--	100.0	OG	N.A.
City of Traverse								
Bayside	138.00[a/]	35.00	34.4	--	65.6	100.0	CSG	N.A.
Holland Board of Pub. Wks.								
J. deYoung	340.49	77.29	12.7	--	87.3	100.0	C	Coal primary, gas and oil alternates.
Michigan State University								
Power Plant #65	2,712.83	31.00	67.6	--	32.4	100.0	N.A.	Gas primary fuel, coal alternate.
Detroit Edison Co.								
Trenton Channel	8,859.96	1,076.00	4.0	4.2	91.8	100.0	C(P)G	Coal and gas burned, coal desired if available.
St. Clair	200.00	1,905.00	0.5	22.2	77.3	100.0	C(P)O	Coal, oil and gas burned.
Wyandotte North	1,388.00	54.00	12.5	13.0	74.5	100.0	C(P)OG	Coal primary fuel, gas and oil alternates.
Delray	4,792.00[b/]	375.00	72.4	27.6	--	100.0	OG	Both oil and gas burned.
Conners Creek	9,479.98	540.00	35.2	7.5	57.3	100.0	C(SP)OG	Coal, oil and gas burned.
River Rouge	93.00[b/]	933.00	4.1	58.3	37.6	100.0	C(P)O	Coal, oil and gas burned.
Marrysville	81.00	230.00	0.9	--	99.1	100.0	C(SP)	Coal primary fuel, gas alternate.
City of Wyandotte Dept. Mun.								
Wyandotte	2,188.44	40.00	100.0	--	--	100.0	--	Gas primary fuel, oil alternate.
Wisconsin								
Marshfield Elec. & Water Dept.								
Wildwood	405.99	41.50	1.9	--	98.1	100.0	C(S)	Coal primary fuel, oil/gas alternates.

[a/] 1974 volume from ADR printout.
[b/] Blast furnace gas excluded.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974: Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Wisconsin (Continued)								
Lake Superior Dist. Power								
Bay Front	1,131.27	80.00	42.6	--	57.4	100.0	C(S)G	Coal, oil and gas burned.
Madison Gas & Elec. Co.								
Blount St.	4,899.49	195.50	73.5	0.1	26.4	100.0	C(P)OG	Coal primary fuel in 6 of 9 boiler units, switching to gas as primary in 3 of 9 units.
Superior Water Light & Power Co.								
Winslow	352.56	25.19	47.0	53.0	--	100.0	C(P)OG	Oil primary fuel, coal and gas possible alternates.
Wisconsin Public Service Corp.								
Pulliam	180.31	392.50	2.0	--	98.0	100.0	C(P)OG	Coal and gas burned, oil alternate.
Weston	2,148.13	135.00	25.6	--	74.4	100.0	C(P)G	Both Coal and gas burned.
Wisconsin Power/Light Co.								
Blackhawk	2,483.00	50.00	83.9	16.1	--	100.0	C(P)G	Gas primary fuel, coal alternate.
Wisconsin Elec. Power Co.								
Lakeside	6,226.89	310.00	96.2	3.8	--	100.0	OG	Gas primary fuel, oil alternate.
North Oak Creek	15.30	500.00	--	0.2	99.8	100.0	C(P)	Coal primary fuel, company feels there is no alternate capability.
Commerce	1,551.00	35.00	99.0	1.0	--	100.0	OG	Gas primary fuel, oil alternate.
Northern Plains								
Iowa								
Ames Elec. Dept.								
Ames #1 and #2	1,668.44	68.19	59.0	1.5	39.5	100.0	C(SP)OG	Coal primary fuel, gas alternate in 2 of 3 boilers.
Cedar Falls Municipal Utilities								
Streeter	1,152.19	31.29	42.6	--	57.4	100.0	COG	Coal primary fuel, gas alternate.
Eastern Iowa Light & Power								
Fair	1,097.70	62.50	43.0	--	57.0	100.0	C(P)G	Coal primary fuel, gas alternate.
Corn Belt Power Corp.								
Wisdom	1,602.58	33.00	63.4	--	36.6	100.0	C(P)G	Gas primary fuel, coal alternate.
Humbolt	1,282.59	41.50	54.9	--	45.1	100.0	C(SP)G	Gas primary fuel, coal alternate.
Interstate Power Co.								
Dubuque	1,661.80	91.25	46.4	--	53.6	100.0	C(SP)OG	Coal primary fuel, gas alternate in 4 of 5 boiler units.
Kapp	169.90	237.20	3.1	0.1	96.8	100.0	C(P)G	Coal primary fuel, gas alternate with 50% boiler derating in 1 of 2 boiler units.

Schedule V - 1
Sheet 8 of 20

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Iowa (Continued)								
Iowa Elec. Light/Power Co.								
Sutherland	8,075.98	156.60	85.5	--	14.5	100.0	C(P)G	Both coal and gas burned.
Six St.	1,010.00	92.20	35.3	0.1	64.6	100.0	C(P)OG	Coal and gas both burned.
Boone	1,854.00	34.20	79.3	--	20.7	100.0	C(P)OG	Gas primary fuel, coal also burned.
Prairie Creek #4	515.00	148.70	4.4	0.1	95.5	100.0	C(P)G	Coal and gas both burned.
Prairie Creek #1-3	1,411.00	96.00	100.0	--	--	100.0	--	Coal and gas both burned.
Iowa Public Service Co.								
George Neal #1 and #2	4,883.41	496.25	19.6	--	80.4	100.0	C(P)G	Coal primary fuel, gas alternate.
Big Sioux	1,293.00	40.00	97.9	2.1	--	100.0	C(P)OG	Gas primary fuel, oil alternate.
Maynard	3,581.49	100.00	65.3	0.4	34.3	100.0	C(SP)G	Coal primary fuel, gas alternate in 2 of 5 boiler units.
Iowa Illinois Gas/Elec. Co.								
Riverside	3,948.00	221.65	37.8	--	62.2	100.0	CG	Coal primary fuel, gas alternate.
Iowa Power & Light Co.								
Des Moines	11,427.34	325.00	48.2	0.5	51.3	100.0	C(P)OG	Gas primary fuel, coal alternate, oil alternate in 1 of 6 boiler units
Council Bluffs	2,431.44	130.60	31.9	--	68.1	100.0	C(P)G	Coal and gas both burned.
Muscatine Power & Water								
Muscatine	2,076.03	117.50	16.2	--	83.8	100.0	C(S)G	Coal primary fuel, gas alternate in 3 of 4 boiler units.
Minnesota								
Austin Utilities								
Austin	2,534.35	27.50	75.1	17.0	7.9	100.0	C(SP)G	Gas primary fuel, 10% boiler unit derating on 2 of 4 units when burning coal or oil.
Interstate Power Co.								
Fox Lake	1,329.20	104.60	64.0	36.0	--	100.0	OG	Oil and gas both burned, coal possible alternate.
Minnesota Power/Light Co.								
Hibbard	495.40	122.50	30.8	69.2	--	100.0	C(P)G	Coal primary fuel, gas alternate in 2 of 4 boiler units.
Owantonna Public Utilities								
Central	1,255.00[a]	34.50	85.2	14.8	--	100.0	OG	N.A.
Northern States Power Co.								
Minnesota Valley	580.00	46.00	28.7	--	71.3	100.0	C(SP)G	Coal primary fuel, gas alternate.
Southeast	538.00	30.00	100.0	--	--	100.0	OG	Gas primary fuel, oil alternate.
Riverside	6,226.98	455.85	11.0	--	89.0	100.0	C(SP)OG	Coal primary fuel, gas alternate in 10 of 18 boiler units.
Black Dog	11,061.99	486.66	37.4	--	62.6	100.0	C(P)G	Coal primary fuel, gas alternate.
High Bridge	12,774.98	463.84	22.8	--	77.2	100.0	C(P)OG	Coal primary fuel, gas alternate.
Red Wing	1,104.00	23.00	60.1	--	39.9	100.0	C(S)G	Coal primary fuel, gas alternate.
Wilmarth	719.00	25.00	62.0	--	38.0	100.0	C(S)G	Coal primary fuel, gas alternate.

[a] Gas consumption from Steam-Electric Plant Factors.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Minnesota (Continued)								
United Power Assoc.								
Elk River	334.54	45.50	8.8	20.1	71.1	100.0	C(SP)OG	Coal and gas primary fuels, oil alternate in 1 of 3 boilers with 50% derating.
Rochester Dept. Pub. Util.								
Silver Lake	2,308.70	98.39	49.9	--	50.1	100.0	C(P)G	Coal primary fuel, gas alternate.
New Ulm Pub. Util. Comm.								
New Ulm	1,094.41	27.00	50.9	--	49.1	100.0	C(S)OG	Gas primary fuel, coal alternate in 3 of 4 boilers.
Willmar Mun. Util. Comm.								
Willmar	396.00[a]	30.40	43.0	--	57.0	100.0	C(S)G	N.A.
Nebraska								
Nebraska Pub. Power Dist.								
Sheldon	7,567.48	228.65	64.3	--	35.7	100.0	OG	Gas primary fuel, coal alternate.
Bluffs	3,003.00	42.20	91.0	9.0	--	100.0	OG	Gas primary fuel, oil alternate in 2 of 4 boiler units.
Lincoln K St.								
Kramer	717.40	31.70	72.4	4.2	23.4	100.0	--	Gas primary fuel, coal alternate.
Hastings Util. Dept.	2,268.55	113.50	46.7	--	53.3	100.0	C(P)G	Gas primary fuel, coal alternate.
North Denver	2,044.23	51.00	41.5	58.5	--	100.0	OG	Gas primary fuel, oil alternate in 3 of 4 boiler units with 5%-10% derating.
Fremont Dept. of Pub. Util.								
L.D. Wright	1,916.50	41.19	76.5	--	23.5	100.0	OG	Gas primary fuel, coal alternate with 10% boiler unit derating.
Grand Islands Utilities								
Burdick	3,726.64	92.50	63.4	36.6	--	100.0	OG	Gas primary fuel, oil alternate.
Omaha Pub. Power Dist.								
Jones St.	1,659.00	173.50	89.8	10.2	--	100.0	C(SP)G	Plant burns both oil and gas, 30%-70% boiler unit derating when burning gas in 6 of 8 boiler units.
North Omaha	17,005.97	644.70	41.9	--	58.1	100.0	C(P)G	Coal primary fuel, gas alternate.
Central Neb. Pub. Power Dist.								
Canaday	6,230.84	108.79	83.9	16.1	--	100.0	OG	Gas primary fuel, oil alternate with 10% boiler unit derating.
North Dakota	--	--						
South Dakota								
Northern States Power Co.								
Pathfinder	1,066.00	75.00	75.0	25.0	--	100.0	OG	Oil primary fuel, gas alternate.
Lawrence	1,515.00	48.00	51.0	--	49.0	100.0	C(SP)G	Coal primary fuel, gas alternate.

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[a] Gas consumption from Steam-Electric Plant Factors.

Schedule V - 1
Sheet 9 of 20

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Mid-Continent								
Kansas								
Central Telephone & Util. Corp.								
Mullergren	6,570.75	119.10	92.1	7.9	--	100.0	G	Gas primary fuel, oil alternate.
Cimmaron River	3,485.45	50.00	100.0	--	--	100.0	G	Gas primary fuel, company feels there is no alternate fuel capability.
Judson Large	6,591.43	179.50	88.3	11.7	--	100.0	G	Gas primary fuel, oil alternate.
City of Coffeyville								
Coffeyville 7	1,637.05	78.29	95.7	4.3	--	100.0	OG	Gas primary fuel, oil alternate with 5% boiler unit derating.
Empire Dist. Elec. Co.								
Riverton	5,246.30	155.00	62.8	--	37.2	100.0	C(P)OG	N.A.
Kansas Gas & Elec. Co.								
Ripley	8,651.00	87.20	94.1	5.9	--	100.0	OG	Gas primary fuel, oil alternate.
Neosho	4,493.61	113.50	92.8	7.2	--	100.0	C(S)OG	Gas primary fuel, oil alternate in 1 of 7 boiler units.
Gill	14,913.09	348.30	95.9	4.1	--	100.0	OG	Gas primary fuel, oil alternate.
Evans	27,394.48	539.30	95.9	4.1	--	100.0	OG	Gas primary fuel, oil alternate.
Kansas City Board of Pub. Util.								
Quindaro #3	7,614.75	239.10	65.0	--	35.0	100.0	C(P)G	Gas primary fuel, coal alternate.
Quindaro #2	2,773.75	94.50	75.6	--	24.4	100.0	C(P)G	Gas primary fuel, coal alternate.
Kaw	7,091.77	161.28	84.0	--	16.0	100.0	C(P)G	Gas primary fuel, coal alternate.
McPherson Water & Elec. Dept.								
McPherson	2,403.33	57.50	90.7	9.3	--	100.0	G	Gas primary fuel, oil alternate with 15% boiler unit derating.
Kansas Power & Light Co.								
Tecumseh	8,321.08	346.10	88.3	2.2	9.5	100.0	COG	Gas primary fuel, coal alternate, oil alternate with 20% boiler unit derating in 2 of 9 units.
Abilene	1,707.00	33.75	90.7	9.3	--	100.0	OG	Gas primary fuel, oil alternate with 10% boiler unit derating.
Lawrence	24,414.96	613.35	83.4	8.0	8.6	100.0	COG	Gas primary fuel, oil and coal alternates with 20% boiler unit derating in 1 of 4 units.
Hutchinson	16,148.96	257.20	91.2	8.8	--	100.0	OG	Gas primary fuel, oil alternate with 20% boiler unit derating in 3 of 4 units.
The Central Kansas Power Co.								
Ross Beach 1 & 2	2,058.29	33.50	87.7	12.3	--	100.0	OG	Gas primary fuel, oil alternate.
Wellington Light Dept.								
Wellington	623.00[a/]	13.50	21.8	78.2	--	100.0	OG	N.A.
Winefield Mun. Light & Power Plant								
Winefield	920.30	44.50	92.5	7.5	--	100.0	G	N.A.
Wheatland Elec. Coop. Inc.								
Garden City	3,438.61	27.50	97.6	2.4	--	100.0	OG	Gas primary fuel, oil alternate with 20% boiler derating in 1 of 3 units, no derating in other 2 units.

[a/] Gas consumption from Steam-Electric Plant Factors.

Schedule V - 1
Sheet 11 of 20

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974				Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
			Gas (4)	Oil (5)	Coal (6)	Total (7)		
Missouri								
Arkansas-Missouri Power Co.								
Jim Hill	627.41	33.00	96.9	3.1	--	100.0	OG	Both oil and gas burned.
Springfield Utilities								
James River	8,587.39	257.00	71.8	--	28.2	100.0	CG	Gas primary fuel, coal alternate with 5% boiler derating.
City of Independence Power and Light Dept.								
Blue Valley	4,858.69	115.00	83.1	3.1	13.8	100.0	COG	Gas primary fuel, oil and coal also burned.
Columbia Water & light Dept.								
Columbia	1,040.50	107.00	33.7	0.7	65.6	100.0	C(S)	Coal and gas burned, oil alternate with 10% boiler unit derating.
Kansas City Power & Light Co.								
Grand Avenue	1,197.00	126.75	43.7	0.5	55.8	100.0	C(P)OG	Coal primary fuel, gas alternate.
Northeast	1,995.00	133.00	94.1	5.9	--	100.0	OG	Gas primary fuel, oil alternate.
Hawthorn	14,244.98	908.09	28.6	--	71.4	100.0	C(P)OG	Coal primary fuel, gas alternate.
Missouri Pub. Serv. Co.								
Ralph Green	1,861.00	49.50	100.0	--	--	100.0	C(P)G	Gas primary fuel, coal alternate with 17% boiler unit derating.
St. Joseph Light & Power Co.								
Lake Road	11,533.88	150.50	79.2	0.7	20.1	100.0	COG	Gas primary fuel, oil and coal alternates with 12-18% derating in 3 of 6 boiler units when burning coal.
Edmond Street	1,718.20	42.50	86.8	13.2	--	100.0	COG	Gas primary fuel, oil alternate with 20% boiler derating in 2 of 5 units.
Union Elec. Co.								
Meramec	109.00	923.00	--	0.1	99.9	100.0	C(P)G	Coal primary fuel, gas alternate.
Marshall Mun. Utilities								
Marshall	249.00[a/]	30.50	75.7	24.3	--	100.0	COG	N.A.
Oklahoma								
Grand River Dam Auth.								
Chouteau	4,078.00	56.25	100.0	--	--	100.0	C(P)OG	Gas primary fuel, coal alternate with 4% boiler derating.
Oklahoma Gas/Elec. Co.								
Belle Isle	1,129.29	55.00	100.0	--	--	100.0	OG	Gas primary fuel, no alternate listed.
Arbuckle	3,869.82	73.50	99.0	1.0	--	100.0	OG	Gas primary fuel, no alternate listed.
Horseshoe Lake	35,379.33	916.23	99.9	0.1	--	100.0	C(P)OG	Gas primary fuel, coal alternate in 1 of 9 boiler units.
Mustang	33,413.75	509.30	100.0	--	--	100.0	C(P)OG	Gas primary fuel, coal alternate in 2 of 4 boiler units, 23% derating in 1.
Seminole	55,226.84	1,134.00/1,701.00	99.7	0.3	--	100.0	OG	Gas primary fuel, no alternate listed.
Riverbank	11,945.03	195.90	100.0	--	--	100.0	OG	Gas primary fuel, no altrnate listed.
Osage	2,026.60	40.00	100.0	--	--	100.0	C(P)G	Gas primary fuel, coal alternate.

[a/] 1974 volume from ADR printout.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	 Oil (5)	 Coal (6)	 Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Oklahoma (Continued)								
Public Service Co. of Oklahoma								
Comanche a/	107.60	0.00/170.00	98.2	1.8	--	100.0	G	N.A.
Weleetka	1,619.50	83.00	100.0	--	--	100.0	G	Gas primary fuel, no alternate listed.
Tulsa	25,759.37	482.00	99.1	0.9	--	100.0	OG	Gas primary fuel, oil alternate in 1 of 4 boiler units.
Southwestern	29,475.67	483.00	100.0	--	--	100.0	OG	Gas primary fuel, no alternate listed.
Northeastern	39,297.18	642.50	99.7	0.3	--	100.0	OG	Gas primary fuel, no alternate listed.
Riverside b/	14,027.00	472.50	99.7	0.3	--	100.0	G	N.A.
Western Farmers Elec. Coop.								
Mooreland	11,485.82	191.00/326.00	100.0	--	--	100.0	OG	Gas primary fuel, no alternate listed.
Anadarko	2,010.51	84.50	52.8	47.2	--	100.0	OG	Gas primary fuel, no alternate listed.
Gulf Coast								
Arkansas								
Arkansas Elec. Coop.								
Fitzhugh	726.00	59.84	6.0	94.0	--	100.0	G	N.A.
McClellan 1	3,182.63	136.00	21.7	78.3	--	100.0	G	
Bailey	959.57	120.00/320.00	22.0	78.0	--	100.0	G	
Arkansas Power/Light Co.								
Lynch	5,464.38	259.75	68.1	31.9	--	100.0	OG	Gas primary fuel, oil alternate with 20%-25% derating in 2 of 3 units.
Ritchie	14,342.11	903.64	50.2	49.8	--	100.0	OG	Gas primary fuel, oil alternate with 13% boiler derating.
Lake Catherine	17,442.03	756.50	41.0	59.0	—	100.0	OG	Gas primary fuel, oil alternate with 14%-16% boiler derating.
Couch	6,252.39	187.50	82.7	17.3	--	100.0	OG	Gas primary fuel, oil alternate with 8%-17% boiler derating.
Jonesboro Water & Light Plant								
Jonesboro	168.00	27.69	44.1	55.9	--	100.0	OG	Gas primary fuel, oil alternate.
Louisiana								
Alexandria Mun. Elec. & Gas Works								
Plant #2	4,546.60	177.50	93.7	6.3	--	100.0	G	Gas primary fuel, oil alternate with 3% boiler derating.
City of Lafayette Utilities System								
Bonin	4,747.99	143.35	93.3	6.7	--	100.0	G	Gas primary fuel, oil alternate with 80% boiler derating.
Rodemacher	975.00	42.65	100.0	--	--	100.0	G	Gas primary fuel, oil alternate with 80% boiler derating.
Central Louisiana Elec. Co.								
Teche	17,624.97	427.90/867.90	100.0	--	--	100.0	G	Gas primary fuel, no alternate listed.
Coughlin	16,783.98	483.28	93.9	6.1	--	100.0	G	Gas primary fuel, oil alternate with 15-20% boiler derating

a/ New plant placed in operation in 1973.
b/ New plant placed in operation in 1974, 1974 volume from ADR printout.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Louisiana (Continued)								
Ruston Util. System								
Steam Plant	1,011.00[a/]	42.00	100.0	--	--	100.0	G	N.A.
Gulf States Utilities Co.								
Nelson	23,776.07	982.27	70.5	29.5	--	100.0	OG	Gas primary fuel, oil in emergency.
Louisiana #2	10,006.97	175.00	92.5	7.5	--	100.0	OG	Gas primary fuel, oil in emergency.
Louisiana #1	28,190.88	253.00	100.0	--	--	100.0	OG	Gas primary fuel, oil in emergency.
Willow Glen	41,563.47	1,589.64/2,169.64	73.6	26.4	--	100.0	OG	Gas primary fuel, oil in emergency.
Louisiana Power & Light Co.								
Sterlington	25,720.90	351.53	92.7	7.3	--	100.0	G)	Gas primary fuel, no alternate capability except for emergency or intermittent use.
Nine Mile Point	79,045.75	1,884.34	92.5	7.5	--	100.0	OG)	
Little Gypsy	63,147.95	1,250.78	99.9	0.1	--	100.0	OG)	
Minden Water & Light Dept.								
Minden	959.85	25.00	79.7	20.3	--	100.0	G	Gas primary fuel, company feels no alternate capability.
New Orleans Pub. Serv. Inc.								
Michoud	23,102.26	959.25	50.5	49.5	--	100.0	OG	Gas primary fuel, oil alternate.
Market Street	1,480.57	96.25	100.0	--	--	100.0	OG	Gas primary fuel, oil for emergency or standby only.
Patterson	4,240.39	218.25	72.9	27.1	--	100.0	OG	Gas primary fuel, oil for emergency or standby only.
Monroe Utilities Comm.								
Monroe	5,467.04	165.99	100.0	--	--	100.0	G	Gas primary fuel, oil alternate in 3 of 7 boiler units.
City of Opelousas								
Opelousas #2	1,142.16	38.00	100.0	--	--	100.0	N.A.	N.A.
Sewer & Water Board New Orleans								
Power House Two	1,785.45	47.00	99.8	0.2	--	100.0	G	Gas primary fuel, oil alternate with with 31% boiler derating in 3 of 6 boiler units.
Southwestern Elec. Power Co.								
Lieberman	9,546.98	277.00	96.7	3.3	--	100.0	G	Gas primary fuel, no alternate listed.
Arsenal Hill	3,592.00	170.00	100.0	--	--	100.0	G	Gas primary fuel, no alternate listed.
City of Natchitoches								
Natchitoches	940.00[a/]	N.A.	99.4	0.6	--	100.0	N.A.	N.A.
Mississippi								
Mississippi Power & Light Co.								
Brown	8,565.48	383.20	78.9	21.1	--	100.0	G)	Gas primary fuel, oil for emergency use only.
Natchez	1,601.20	66.00	18.5	81.5	--	100.0	G)	
Delta	6,037.18	220.50	26.0	74.0	--	100.0	G)	
Wilson	16,870.78	1,327.60	33.7	66.3	--	100.0	G)	

[a/] 1974 volume from ADR printout.

Schedule V - 1
Sheet 14 of 20

ALTERNATIVE FUEL BURNING CAPABILITY OF
ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Mississippi (Continued)								
Mississippi Power Co.								
Watson	8,319.78	1,215.35	11.4	17.1	71.5	100.0	C(P)G	Gas primary fuel in 3 of 4 units with oil alternate, coal primary fuel in 1 of 4 units with gas alternate at 20% boiler derating.
Sweatt	2,797.60	136.85	39.7	60.3	--	100.0	G	Gas primary fuel, oil alternate.
South Mississippi Elec. Power Assoc.								
Moselle	2,997.30	177.00	27.1	72.9	--	100.0	OG	Gas primary fuel, oil alternate with 1% boiler unit derating.
Texas								
Brazos Elec. Power Coop.								
North Texas	3,150.20	75.00	99.6	0.4	--	100.0	OG)	Gas primary fuel, oil alternate on temporary basis only without plant modifications.
Miller	8,163.58	188.00/418.00	100.0	--	--	100.0	OG)	
Brownsville Public Utilities Board								
Brownsville	4,806.38	68.00	91.3	8.7	--	100.0	G	Gas primary fuel, oil alternate with 14%-16% boiler derating.
Central Power & Light Co.								
LaPalma	11,810.79	230.00	100.0	--	--	100.0	N.A.)	Gas primary fuel, no alternate listed.
Joslin	11,291.29	261.00	97.9	2.1	--	100.0	G)	
Victoria	23,283.25	553.50	99.6	0.4	--	100.0	G)	
Nueces Bay	19,765.26	595.50	95.0	5.0	--	100.0	G)	
Laredo	4,221.60	72.00/177.00	100.0	--	--	100.0	G)	
Bates	8,696.99	188.70	99.8	0.2	--	100.0	G)	
Hill	19,119.04	574.20	99.9	0.1	--	100.0	G)	N.A.
Davis a/	10,845.00 b/	0.00/323.40	99.9	0.1	--	100.0	OG	Gas primary fuel, oil alternate in 3 of 6 units with 20% derating and 1 of 6 units with 10% derating
Bryan Municipal Elec. System								
Bryan	4,554.89	120.50	96.9	3.1	--	100.0	G	
City of Austin								
Decker Creek	12,708.98	321.00	95.2	4.8	--	100.0	G)	Gas primary fuel, no alternate listed.
Seaholm	3,600.20	125.00	91.2	8.8	--	100.0	G)	
Holly	8,892.48	416.00/606.00	78.2	21.8	--	100.0	G)	
City Pub. Serv. Board of San Antonio								
OW Sommers 1-3	11,431.77	446.4/892.79	95.7	4.3	--	100.0	G	Gas primary fuel, oil alternate.
Mission Road	2,335.00	163.64	100.0	--	--	100.0	G	Gas primary fuel, oil alternate with 17% boiler derating in 1 of 3 units.
Leon Creek	953.00	263.64	59.0	41.0	--	100.0	G	Gas primary fuel, oil alternate.

a/ New plant placed in operation in 1974.
b/ 1974 volume from ADR printout.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974: Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Texas (Continued)								
City Pub. Serv. Board of San Antonio (Continued)								
Tuttle	7,729.59	493.95	71.4	28.6	--	100.0	G	Gas primary fuel, oil alternate with 5%-10% boiler unit derating.
Braunig	29,067.18	894.01	82.3	17.7	--	100.0	G	Gas primary fuel, oil alternate with 6% boiler unit derating in 1 of 3 units.
Dallas Power & Light Co.								
Dallas	4,600.72	223.75	96.8	3.2	--	100.0	OG)	Gas primary fuel, oil consumed only for intermittent or emergency use.
Mountain Creek	37,103.22	989.74	99.8	0.2	--	100.0	OG)	
North Lake	23,758.50	708.61	95.9	4.1	--	100.0	OG)	
Hubbard	10,448.88	927.52	94.5	5.5	--	100.0	OG)	
Parkdale	7,675.07	340.63	97.2	2.8	--	100.0	OG)	
Denton Municipal Utilities								
Denton	4,479.11	188.80	98.9	1.1	--	100.0	OG	Gas primary fuel, oil alternate with 9%-35% boiler derating.
El Paso Elec. Co.								
Newman	17,926.77	265.80	100.0	--	--	100.0	G	Gas primary fuel, oil alternate.
Gulf States Utilities Co.								
Sabine	47,880.96	1,547.28	99.5	0.5	--	100.0	OG)	Gas primary fuel, oil for emergency use only.
Lewis Creek	28,576.94	542.88	99.9	0.1	--	100.0	OG)	
Neches	25,711.96	452.27	94.5	5.5	--	100.0	OG)	
Houston Lighting & Power Co.								
Bertron	41,489.26	826.30	91.5	8.5	--	100.0	G)	Gas primary fuel, no alternate listed.
Robinson	90,800.44	1,549.5/2,314.5	100.0	--	--	100.0	G)	
Parish	60,059.44	1,255.40	100.0	--	--	100.0	G)	
Wharton	14,605.25	322.80	79.5	20.5	--	100.0	G)	
Clarke	2,210.68	210.00	100.0	--	--	100.0	G)	
Greens Bayou	19,583.42	820.97	85.1	14.9	--	100.0	G)	
Webster	27,524.16	614.00	100.0	--	--	100.0	G)	
Deepwater	12,813.51	334.85	97.7	2.3	--	100.0	G)	
Cedar Bayou	84,319.75	1,530.00/2,296.32	94.5	5.5	--	100.0	G)	
Garland Municipal Power & Light								
Olinger	7,286.49	188.64/338.64	98.0	2.0	--	100.0	OG	Gas primary fuel, oil alternate with 5% boiler derating.
Newman	1,752.72	96.50	88.6	11.4	--	100.0	OG	Gas primary fuel, oil alternate with 10% boiler derating.
Lubbock Power/Light								
Holly Ave.	3,305.00	50.00	100.0	--	--	100.0	OG)	Gas primary fuel, oil alternate.
Power Station 2	4,053.45	80.50	90.2	9.8	--	100.0	OG)	
Lower Colorado River Auth.								
Gideon	25,312.38	623.00	97.4	2.6	--	100.0	OG	Gas primary fuel, oil alternate with 10% boiler derating.
Granite Shoals #1 [a]	5,337.00	0.00/408.00	96.2	3.8	--	100.0	G	N.A.
Comal	11.10	60.00		N.A.			OG	N.A.

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a/ New plant placed in operation in 1974, 1974 volume from ADR printout.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Texas (Continued)								
Medina Elec. Coop. Inc.								
Pearsall	4,337.55	75.00	91.1	8.9	--	100.0	G	Gas primary fuel, oil alternate.
Southwestern Pub. Service Co.								
Riverview	2,470.00	34.50	100.0	--	--	100.0	G)	
Plant X	21,067.97	434.40	97.1	2.9	--	100.0	OG)	
Jones	11,464.97	247.5/482.7	96.5	3.5	--	100.0	G)	Gas primary fuel, no alternate listed.
Nichols	19,563.96	474.77	99.8	0.2	--	100.0	G)	
Moore County	3,154.00	68.20	100.0	--	--	100.0	G)	
East Plant	6,729.99	71.00	99.8	0.2	--	100.0	OG)	
Denver City	7,242.98	80.00	100.0	--	--	100.0	OG)	
Texas Elec. Service Co.								
Morgan Creek	41,919.97	845.76	98.1	1.9	--	100.0	OG)	
North Main	3,578.00	116.25	100.0	--	--	100.0	OG)	
Handley	24,605.96	523.35/978.35	100.0	--	—	100.0	OG)	Gas primary fuel, no alternate listed.
Graham	25,627.96	634.78	99.3	0.7	--	100.0	OG)	
Eagle Mountain	17,179.96	706.15	90.9	9.1	--	100.0	OG)	
Permian Basin	10,970.98	700.45	100.0	--	--	100.0	OG)	
Wichita Falls	64.00	25.00			N.A.		OG)	
Texas Power & Light Co.								
Collin	6,352.20	156.25	93.1	6.9	--	100.0	OG)	
Lake Creek	19,987.22	315.63	92.0	8.0	--	100.0	OG)	
River Crest	12,487.65	112.50	90.4	9.6	--	100.0	OG)	Gas primary fuel, no alternate listed.
Valley	31,750.44	1,175.50	89.5	10.5	--	100.0	OG)	
Trinidad	16,393.14	412.11	92.6	7.4	--	100.0	OG)	
Tradinghouse Creek	44,198.49	1,379.70	100.0	--	--	100.0	OG)	
Stryker Creek	30,690.72	703.48	97.2	2.8	--	100.0	OG)	
West Texas Utilities Co.								
Abilene	165.82	26.25	89.0	11.0	--	100.0	G)	
Concho	1,123.40	52.50	92.8	7.2	--	100.0	G)	
Lake Pauline	2,370.40	44.50	95.5	4.5	--	100.0	G)	Gas primary fuel, oil alternate with 5% boiler derating. "These plants not designed for continuous oil burning & would have to be shut down for cleaning after a fewe days or weeks of operation."
Fort Phantom [a]	5,233.00	0.00/146.45	88.8	11.2	--	100.0	OG)	
San Angelo	4,545.00	100.85	97.4	2.6	--	100.0	G)	
Oak Creek	4,182.39	81.60	95.1	4.9	--	100.0	G)	
Paint Creek	9,494.40	241.60	87.6	12.4	--	100.0	G)	
Rio Pecos	9,108.07	136.50	100.0	--	--	100.0	G)	
Greenville Elec. Dept.								
Greenville	1,216.00[b]	N.A.	100.0	--	--	100.0	N.A.	N.A.
Southwestern Elec. Power Co.								
Knox Lee	11,501.96	186.00/531.00	88.5	11.5	--	100.0	G)	
Lone Star	2,413.00	50.00	85.2	14.8	--	100.0	G)	Gas primary fuel, no alternate listed.
Wilkes	49,579.94	881.52	99.8	0.2	--	100.0	G)	

a/ New plant placed in operation in 1974, 1974 volume from ADR printout.
b/ 1974 volume from ADR printout.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Rocky Mountain								
Colorado								
Colorado Springs Dept. of Public Utilities								
Drake	6,520.69	150.00	42.9	--	57.1	100.0	OG	Gas primary fuel, oil alternate in 3 of 5 boiler units, coal alternate in 2 of 5 boiler units.
Birdsall	3,283.10	62.50	98.4	1.6	--	100.0	OG	Gas primary fuel, oil alternate.
Central Tela Util. Corp.								
Pueblo	3,568.50	32.25	98.6	1.4	--	100.0	C(SP)OG	Gas primary fuel, oil and coal alternates with some plant modifications necessary.
Clark	2,680.78	43.75	44.1	--	55.9	100.0	C(S)G	Both coal and gas burned.
Lamar Util. Board								
Lamar	1,053.00[b]	25.00	100.0	--	--	100.0	OG	N.A.
Public Service Co. of Colorado								
Araphahoe	8,491.07	250.50	44.1	--	55.9	100.0	OG	Coal primary fuel, gas alternate.
Cherokee	12,730.27	801.30	29.4	--	70.6	100.0	CG	Coal primary fuel, gas alternate with 40% derating in 1 of 4 units.
Cameo	2,503.40	75.00	36.2	--	63.8	100.0	COG	Coal primary fuel, gas alternate with 50% derating in 1 of 2 units.
Valmont	6,411.89	281.75	54.8	--	45.2	100.0	CG	Coal primary fuel, gas alternate.
Zuni	7,430.57	115.25	63.6	--	36.4	100.0	COG	Gas primary fuel, coal alternate in 2 of 3 boiler units, oil alternate in 2 of 3 boiler units.
Comanche 1[a]	6.80	0.00/350.00	0.1	0.1	99.8	100.0	COG	N.A.
Alamosa	272.00[b]	18.90	17.7	82.3	--	100.0	C(S)OG	N.A.
Montana								
Montana Dakotas Util. Co.								
Lewis & Clark	43.77	50.00	0.9	--	99.1	100.0	C(P)G	Coal primary fuel, gas alternate.
Montana Power Co.								
Corette	433.00	172.80	5.5	--	94.5	100.0	C(P)G	Coal primary fuel, gas alternate.
Bird	401.00	69.00	23.4	76.6	--	100.0	OG	N.A.
Utah								
Utah Power & Light Co.								
Jordan	1,126.00	25.00		N.A.			O	Oil primary fuel, gas alternate. (This unit used only in emergency situations.)
Hale	180.00	59.00	26.9	--	73.1	100.0	C(P)OG	Coal primary fuel, gas alternate.
Gadsby 1, 2, 3	2,480.00	251.64	24.7	5.0	70.3	100.0	C(P)OG	Coal primary fuel, oil/gas alternates, 1 of 3 boilers oil/gas only.

[a] New plant, placed in operation in 1973.
[b] Gas consumption from Steam-Electric Plant Factors.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
Wyoming	--							
Pacific Southwest								
Arizona								
Arizona Public Service Co.								
Saguaro	4,288.39	250.00	35.6	64.4	--	100.0	OG	Gas primary fuel, oil alternate.
Phoenix	1,217.50	116.00	16.1	83.9	--	100.0	OG	Gas primary fuel, oil alternate.
Ocotillo	5,342.69	227.20	51.1	48.9	--	100.0	OG	Gas primary fuel, oil alternate.
Cholla	20.00[a/]	113.60	0.1	--	99.9	100.0	C	Coal primary fuel, no alternate listed.
Yucca	2,547.90	86.70	38.9	61.1	--	100.0	N.A.	Gas primary fuel, oil alternate.
Arizona Elec. Power Coop. Inc.								
Apache	3,841.53	105.00	63.2	--	36.8	100.0	G	Gas primary fuel, oil alternate.
Salt River Project								
Kyrene	2,843.76	108.00	30.3	69.7	--	100.0	OG)	Gas primary fuel, oil alternate.
Cross Cut	818.40	30.00	43.7	56.3	--	100.0	OG)	
Aqua Fria	8,923.48	390.00	30.4	69.6	--	100.0	OG)	
Tucson Gas & Elec. Co.								
Irvington	12,646.98	504.54	38.7	61.3	--	100.0	G	N.A.
De Moss Petrie	4,220.00	104.50	75.4	24.6	--	100.0	G	N.A.
California								
Burbank Public Service Dept.								
Burbank	1,772.50	187.00	33.0	67.0	--	100.0	N.A.	Gas primary fuel, oil alternate.
City of Glendale								
Glendale	1,754.70	187.00	28.6	71.4	--	100.0	OG	Oil and gas both burned.
Imperial Irrigation Dist.								
El Centro	5,283.70	189.10	70.5	29.5	--	100.0	OG	Gas primary fuel, oil alternate.
L.A. Dept. of Water & Power								
Haynes	12,031.97	1,606.00	22.3	77.7	--	100.0	OG)	Gas primary fuel, oil alternate.
Scattergood	8,713.99	505.40/814.4	57.9	42.1	--	100.0	OG)	
Valley	17,808.97	545.60	52.7	47.3	--	100.0	OG)	
Harbor	1,830.00	388.90	13.6	86.4	--	100.0	OG)	
Pasadena Water/Power Dept.								
Glenarm	220.60	65.25	64.3	35.7	--	100.0	OG)	Gas primary fuel, oil alternate.
Broadway	1,887.10	171.00	28.0	72.0	--	100.0	OG)	
Pacific Gas & Elec. Co.								
Kern	59.50	165.50	100.0	--	--	100.0	OG)	Gas primary fuel, oil alternate.
Hunters Point	16,667.28	406.40	64.9	35.1	--	100.0	OG)	
Humboldt Bay	3,384.50	162.40	100.0	--	--	100.0	OG)	
Contra Costa	40,240.77	1,276.10	59.3	40.7	--	100.0	OG)	
Avon	440.00	40.00	94.7	5.3	--	100.0	OG)	
Martinez	2,496.00	40.00	96.4	3.6	--	100.0	OG)	

[a/] Gas consumption from Steam-Electric Plant Factors.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
California (Continued)								
Pacific Gas & Elec. Co. (Continued)								
Morro Bay	35,964.67	1,056.30	67.9	32.1	--	100.0	OG	Gas primary fuel, oil alternate.
Potrero	13,828.88	317.90	69.5	30.5	--	100.0	OG	
Pittsburg	70,076.63	2,028.90	56.5	43.5	--	100.0	OG	
Oleum	4,872.00	80.00	96.8	3.2	--	100.0	OG	
Moss Landing	65,088.86	2,174.70	56.2	43.8	--	100.0	OG	
San Diego Gas Elec. Co.								
Station B	874.00	96.00	58.1	41.9	--	100.0	OG	Gas primary fuel, oil alternate
South Bay	14,053.77	714.00	46.2	53.8	--	100.0	OG	
Silver Gate	4,966.00	247.00	55.4	44.6	--	100.0	OG	
Encina	2,554.00	618.00/910.00	26.8	73.2	--	100.0	OG	
Southern California Edison Co.								
San Bernadino	6,518.99	130.56	76.3	23.7	--	100.0	OG	Gas primary fuel, oil alternate.
Etiwanda	9,529.98	911.00	29.0	71.0	--	100.0	OG	
Redondo Beach	42,039.96	1,579.45	57.5	42.5	--	100.0	OG	
Mandalay	6,781.98	435.20	28.5	71.5	--	100.0	OG	
Highgrove	155.00	169.00	33.8	66.2	--	100.0	OG	
Alamitos Bay	15,063.96	1,982.40	14.1	85.9	--	100.0	OG	
El Segundo	3,188.00	1,020.00	30.3	69.7	--	100.0	OG	
Cool Water	10,266.98	146.00/618.00	100.0	--	--	100.0	OG	
Ormond Beach	10,807.99	1,556.40	5.8	94.2	--	100.0	OG	
Long Beach	37.00	180.00	N.A.				OG	
Huntington Beach	10,335.97	870.40	36.0	64.0	--	100.0	OG	
Mohave (Nev.)	4,597.00	1,520.00	5.8	--	94.2	100.0	CG	Coal primary fuel, gas alternate.
Nevada								
Nevada Power Co.								
Clark	12,925.17	190.28	90.1	9.9	--	100.0	OG	Gas primary fuel, oil alternate in 2 of 3 units with 10% derating.
Sunrise	4,412.07	81.60	70.4	29.6	--	100.0	OG	Gas primary fuel, oil alternate with 8% derating.
Sierra Pacific Power Co.								
Tracy	2,811.00	133.00/243.00	80.2	19.8	--	100.0	OG	Gas primary fuel, oil alternate.
Ft. Churchill	14,437.95	220.00	95.6	4.4	--	100.0	OG	
New Mexico								
Arizona Public Service Co.								
Four Corners	1,678.00[a]	2,269.80	1.6	--	98.4	100.0	CG	Coal primary fuel, no alternate listed.
Farmington Elec. Util.								
Animas	1,363.67	28.50	100.0	--	--	100.0	G	Gas primary fuel, no alternate listed.
Community Public Service Co.								
Lourdsburg	2,821.02	51.50	90.1	9.9	--	100.0	G	Gas primary fuel, no alternate listed.
El Paso Elec. Co.								
Rio Grande	9,151.78	401.50	55.8	44.2	--	100.0	G	Gas primary fuel, oil alternate in 7 of 9 units.

[a] Gas consumption from Steam-Electric Plant Factors.

ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS

FRC Region State Company Name Plant Name (1)	1973 Gas Consumption (1000 Mcf) (2)	Nameplate Capacity (MW) 1973/1975 (3)	Percent Distribution of Fuel Consumption in 1974 Gas (4)	Oil (5)	Coal (6)	Total (7)	Fuel Designed For: (8)	Alternate Fuel Capacity Notes From FPC Form 36 (9)
New Mexico (continued)								
Lea County Elec. Coop.								
Lovington	2,300.10	41.39	100.0	--	--	100.0	OG	Gas primary fuel, oil alternate.
New Mexico Elec. Service Co.								
Maddox	4,683.23	113.59	100.0	--	--	100.0	G	Gas primary fuel, no alternate listed.
Plains Elec. Generating Co.								
Algodones	3,547.55	51.79	96.0	4.0	--	100.0	G	Gas primary fuel, oil alternate with 5% boiler derating.
Public Service Co. of New Mexico								
Person	5,293.73	125.00	91.8	8.2	--	100.0	OG)	Gas primary fuel, oil alternate.
Reeves Station	11,567.57	175.00	95.6	4.4	--	100.0	OG)	
Prager	769.74	35.00	92.8	7.2	--	100.0	OG)	
Southwestern Public Service Co.								
Roswell	1,208.00	24.20	100.0	--	--	100.0	OG)	Gas primary fuel, no alternate listed.
Cunningham	17,734.95	265.40	100.0	--	--	100.0	G)	
Carlsbad	1,736.00	44.30	99.8	0.2	--	100.0	OG)	
Pacific Northwest								
Idaho	--	--						
Oregon								
Pacific Power/Light Co.								
Lincoln	1,855.00	35.50	62.6	37.4	--	100.0	OG	Gas primary fuel, oil alternate. (This plant mainly used for company's steam heating system, minimal use in electric system.)
Portland Gen. Elec. Co.								
Station L	564.12	75.50	--	100.0	--	100.0	N.A.	Stand-by station.
Washington	--							

N.A. = Not available
Source: Columns (2) and (3) - EPA Supplemented by National Coal Association, Steam Electric Plant Factors; Columns (4) through (7) - ADR Inc. from FPC Form 423's; Column (8) National Coal Association, Steam Electric Plant Factors; Column (9) - FPC Form 36's

Schedule V-2
Sheet 1 of 2

SUMMARY OF ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS, BY STATE AND REGION

	Gas Primary Fuel									Gas Secondary Fuel			Total		
	Full Alternate Capacity			Partial Alternate Capacity			No Alternate Capacity						All Plants Which Burned Gas in 1973[a]		
	Number of Plants	Nameplate Capacity (MW) 1973	MMcf Burned (1973)	No.	MW	MMcf	No.	MW	MMcf	No.	MW	MMcf	No.	MW	MMcf
New England															
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Massachusetts	-	-	-	-	-	-	-	-	-	5	432	5,127.7	5	432	5,127.7
New Hampshire	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	1	34	43.7	1	34	43.7
Vermont	-	-	-	-	-	-	-	-	-	1	70	482.0	1	70	482.0
Total New England	-	-	-	-	-	-	-	-	-	7	536	5,653.4	7	536	5,653.4
Appalachian															
Delaware	-	-	-	-	-	-	-	-	-	2	805	822.4	2	805	822.4
D. C.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Kentucky	-	-	-	-	-	-	-	-	-	2	1,354	7,691.8	2	1,354	7,691.8
Maryland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
New Jersey	-	-	-	-	-	-	-	-	-	7	4,263	17,732.2	7	4,263	17,732.2
New York	-	-	-	-	-	-	-	-	-	10	7,420	46,812.9	10	7,420	46,812.9
Ohio	2	127	1,942.2	-	-	-	1	219	5,595.8	1	321	18.0	4	667	7,556.0
Pennsylvania	-	-	-	-	-	-	-	-	-	1	155	2,018.0	1	155	2,018.0
Virginia	-	-	-	-	-	-	-	-	-	1	29	1,332.0	1	29	1,332.0
West Virginia	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Appalachian	2	127	1,942.2	-	-	-	1	219	5,595.8	24	14,347	76,427.3	27	14,693	83,965.3
Southeast															
Albama	1	40	969.0	-	-	-	-	-	-	2	276	1,412.5	3	316	2,381.5
Florida	5	437	13,444.0	-	-	-	-	-	-	22	9,586	132,376.1	27	10,023	145,820.1
Georgia	1	118	3,533.2	-	-	-	-	-	-	5	2,040	26,630.9	6	2,158	30,164.1
North Carolina	-	-	-	-	-	-	-	-	-	2	568	911.1	2	568	911.1
South Carolina	-	-	-	-	-	-	-	-	-	3	1,354	6,344.1	3	1,354	6,344.1
Tennessee	-	-	-	-	-	-	-	-	-	1	990	13,657.6	1	990	13,657.6
Total Southeast	7	595	17,946.2	-	-	-	-	-	-	35	14,816	181,332.3	42	15,409	199,278.5
Great Lakes															
Illinois	-	-	-	3	454	6,306.8	1	107	3,640.0	11	7,797	21,267.6	15	8,358	31,194.4
Indiana	1	122	3,241.3	-	-	-	-	-	-	4	1,914	3,582.3	5	2,036	6,823.6
Michigan	2	71	4,901.3	-	-	-	-	-	-	10	5,225[b]	25,617.4	12	5,296	30,518.7
Wisconsin	3	395	10,260.9	-	-	-	-	-	-	7	1,370	9,133.0	10	1,765	19,393.9
Total Great Lakes	6	588	18,403.5	3	454	6,306.8	1	107	3,640.0	32	16,306	59,580.3	42	17,455	87,930.6

a/ Includes some plants which began operation post 1973, therefore 1974 consumption used for these plants.
b/ Megawatt rating of one plant not available.

Note: Refinery and blast furnace gas excluded.

IA-18774

SUMMARY OF ALTERNATIVE FUEL BURNING CAPABILITY OF ELECTRIC UTILITY POWER PLANTS BURNING GAS, BY STATE AND REGION

FRC Region State	Gas Primary Fuel									Gas Secondary Fuel			Total		
	Full Alternate Capacity			Partial Alternate Capacity			No Alternate Capacity						All Plants Which Burned Gas in 1973[a/]		
	Number of Plants	MW Rating (1973)	MMcf Burned	No.	MW	MMcf	No.	MW	MMcf	No.	MW	MMcf	No.	MW	MMcf
Northern Plains															
Iowa	7	726	26,946.5	-	-	-	-	-	-	12	1,798	24,195.4	19	2,524	51,141.9
Minnesota	2	64	1,793.0	2	54	3,628.8	-	-	-	11	1,901	37,330.8	15	2,019	42,752.6
Nebraska	4	466	14,280.0	4	243	13,194.6	-	-	-	2	818	18,665.0	10	1,527	46,139.6
North Dakota	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
South Dakota	-	-	-	-	-	-	-	-	-	2	123	2,581.0	2	123	2,581.0
Total Northern Plains	13	1,256	43,019.5	6	297	16,823.4	-	-	-	27	4,640	82,772.2	46	6,193	142,615.1
Mid-Continent															
Kansas	10	1,957	88,905.6	9	1,572	63,484.9	1	50	3,485.4	1	14	623.0	21	3,593	156,498.9
Missouri	3	278	7,102.7	4	500	23,700.5	-	-	-	5	2,098	17,218.9	12	2,876	48,022.1
Oklahoma	1	40	2,026.6	5	2,048	100,641.0	10	3,500	168,183.8	-	-	-	16	5,588	270,851.4
Total Mid-Continent	14	2,275	98,034.9	18	4,120	187,826.4	11	3,550	171,669.2	6	2,112	17,841.9	49	12,057	475,372.4
Gulf Coast															
Arkansas	1	28	168.0	4	2,107	43,500.9	-	-	-	3	316	4,868.2	8	2,451	48,537.1
Louisiana	1	959	23,102.2	6	1,060	34,306.1	16	7,781	311,989.9	-	-	-	23	9,800	369,398.2
Mississippi	2	1,352	11,117.4	5	2,176	36,071.9	-	-	-	-	-	-	7	3,526	47,189.3
Texas	7	1,241	42,019.4	9	2,837	87,323.7	64	27,815	1,148,481.8	-	-	-	80	31,893	1,277,824.9
Total Gulf Coast	11	3,580	76,407.0	24	8,178	201,202.6	80	35,596	1,460,471.7	3	316	4,868.2	118	47,670	1,742,949.5
Rocky Mountains															
Colorado	4	353	18,287.4	1	32	3,568.5	-	-	-	7	1,471	33,096.2	12	1,856	54,952.1
Montana	-	-	-	-	-	-	-	-	-	3	292	877.8	3	292	877.8
Utah	-	-	-	-	-	-	-	-	-	3	336	3,786.0	3	336	3,786.0
Wyoming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Rocky Mountains	4	353	18,287.4	1	32	3,568.5	-	-	-	13	2,099	37,760.0	18	2,484	59,615.9
Pacific Southwest															
Arizona	10	1,922	46,690.6	-	-	-	-	-	-	1	114	20.0	11	2,036	46,710.6
California	34	22,062	439,841.5	-	-	-	-	-	-	1	187	1,754.7	35	22,249	441,596.2
Nevada	2	353	17,249.0	2	272	17,337.2	-	-	-	1	1,520	4,597.0	5	2,145	39,183.2
New Mexico	4	376	19,931.1	2	453	12,699.3	6	527	29,546.9	1	2,270	1,678.0	13	3,626	63,855.3
Total Pacific Southwest	50	24,713	523,712.2	4	725	30,036.5	6	527	29,546.9	4	4,091	8,049.7	64	30,056	591,345.3
Pacific Northwest															
Idaho	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oregon	1	36	1,855.0	-	-	-	-	-	-	1	76	564.1	2	112	2,419.1
Washington	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Pacific Northwest	1	36	1,855.0	-	-	-	-	-	-	1	76	564.1	2	112	2,419.1
Total United States	108	33,523	799,608	56	13,806	445,764	99	39,999	1,670,924	152	59,337	474,069	415	146,665	3,391,165

Note: Refinery and Blast furnace gas excluded.

a/ Includes some plants which began operation post 1973; therefore 1974 consumption used for these plants.

Source: Schedule V-1; Publicly available literature such as Annual Reports to Stockholders.

PROJECTED INCREASES IN FUEL OIL AND COAL CONSUMPTION BY ELECTRIC UTILITIES ATTRIBUTABLE TO THE DECLINE IN NATURAL GAS CONSUMPTION BETWEEN 1973 AND 1980

(Trillions of Btu's)

Region	1973	Demand Displaced to Other Fuels Due to Reductions in 1973 Gas Volumes a/ b/																	
	Gas	1975			1976			1977			1978			1979			1980		
State (1)	Consumption (2)	Coal (3)	Oil (4)	Indeterminate (5)	Coal (6)	Oil (7)	Indeterminate (8)	Coal (9)	Oil (10)	Indeterminate (11)	Coal (12)	Oil (13)	Indeterminate (14)	Coal (15)	Oil (16)	Indeterminate (17)	Coal (18)	Oil (19)	Indeterminate (20)
New England	5.7	-	0.2	-	0.5	2.4	-	0.5	5.2	-	0.5	5.2	-	0.5	5.2	-	0.5	5.2	-
Massachusetts	5.1	-	0.2	-	-	2.4	-	-	5.1	-	-	5.1	-	-	5.1	-	-	5.1	-
Rhode Island	0.1	-	n/	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.1	-
Vermont	0.5	-	-	-	0.5	-	-	0.5	-	-	0.5	-	-	0.5	-	-	0.5	-	-
Appalachian	84.1	14.6	35.4	0.7	18.7	53.1	5.6	19.0	55.6	5.6	19.2	58.9	5.6	19.2	59.3	5.6	19.2	59.3	5.6
Delaware	0.8	n/	0.7	-	n/	0.8	-	n/	0.8	-	n/	0.8	-	n/	0.8	-	n/	0.8	-
Kentucky	7.9	7.9	-	-	7.9	-	-	7.5	-	-	7.9	-	-	7.9	-	-	7.9	-	-
New Jersey	18.3	5.1	7.8	-	7.7	10.5	-	7.7	10.5	-	7.7	10.5	-	7.7	10.5	-	7.7	10.5	-
New York	48.1	0.6	25.8	-	0.8	40.7	-	1.0	43.3	-	1.2	46.5	-	1.2	46.9	-	1.2	46.9	-
Ohio	7.6	0.1	1.0	0.7	0.9	1.0	5.6	0.9	1.0	5.6	0.9	1.0	5.6	0.9	1.0	5.6	0.9	1.0	5.6
Pennsylvania	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Virginia	1.4	0.9	-	-	1.4	-	-	1.4	-	-	1.4	-	-	1.4	-	-	1.4	-	-
Southeast	203.4	27.5	14.3	-	46.3	24.8	-	46.6	28.5	-	46.7	29.7	-	46.7	54.0	-	46.7	77.6	-
Alabama	2.5	1.1	-	-	2.5	-	-	2.5	-	-	2.5	-	-	2.5	-	-	2.5	-	-
Florida	148.1	0.2	11.2	-	0.4	15.5	-	0.7	19.2	-	0.7	20.3	-	0.7	44.6	-	0.7	68.3	-
Georgia	31.1	7.0	2.6	-	22.6	8.4	-	22.6	8.4	-	22.6	8.4	-	22.6	8.4	-	22.6	8.4	-
North Carolina	0.9	0.6	-	-	0.9	-	-	0.9	-	-	0.9	-	-	0.9	-	-	0.9	-	-
South Carolina	6.5	4.3	0.5	-	5.6	0.9	-	5.6	0.9	-	5.6	0.9	-	5.6	0.9	-	5.6	0.9	-
Tennessee	14.3	14.3	-	-	14.3	-	-	14.3	-	-	14.3	-	-	14.3	-	-	14.3	-	-
Great Lakes	80.7	14.9	7.6	3.5	35.7	30.1	4.7	38.8	30.5	5.1	40.2	32.1	5.1	42.0	33.8	5.1	42.0	33.8	5.1
Illinois	23.3	1.6	0.1	3.5	13.6	2.0	4.7	15.9	2.1	5.1	16.1	2.1	5.1	16.1	2.1	5.1	16.1	2.1	5.1
Indiana	6.9	0.3	3.3	-	3.6	3.3	-	3.6	3.3	-	3.6	3.3	-	3.6	3.3	-	3.6	3.3	-
Michigan	30.8	10.4	2.8	-	11.8	18.6	-	12.1	18.8	-	12.1	18.8	-	12.2	18.8	-	12.2	18.8	-
Wisconsin	19.7	2.5	1.4	-	6.8	6.2	-	7.2	6.4	-	8.5	7.9	-	10.1	9.6	-	10.1	9.6	-
Northern Plains	142.2	20.6	2.8	-	87.1	15.0	-	119.8	17.8	-	119.8	18.3	-	119.8	18.3	-	119.8	18.3	-
Iowa	51.3	2.3	0.5	-	37.2	1.0	-	50.1	1.3	-	50.1	1.3	-	50.1	1.3	-	50.1	1.3	-
Minnesota	43.2	15.6	(1.6)c/	-	30.0	3.1	-	38.9	4.3	-	38.9	4.3	-	38.9	4.3	-	38.9	4.3	-
Nebraska	45.1	2.1	4.2	-	18.7	10.4	-	29.3	11.2	-	29.3	11.7	-	29.3	11.7	-	29.3	11.7	-
South Dakota	2.6	0.6	(0.3)c/	-	1.2	0.5	-	1.5	1.1	-	1.5	1.1	-	1.5	1.1	-	1.5	1.1	-
Mid Continent	469.7	16.9	26.2	(43.2)c/	75.3	76.4	(52.3)c/	75.3	81.6	(62.0)c/	75.2	86.2	(72.4)c/	75.2	90.8	(72.3)c/	75.2	95.4	(72.2)c/
Kansas	155.9	8.2	23.6	(1.1)c/	35.3	68.1	(0.8)c/	35.3	73.5	(0.6)c/	35.3	78.2	(0.3)c/	35.3	82.8	(0.1)c/	35.3	87.4	0.1
Missouri	46.6	9.1	1.2	-	40.4	6.4	-	40.4	6.4	-	40.4	6.4	-	40.4	6.4	-	40.4	6.4	-
Oklahoma	267.2	(0.4)c/	1.4	(42.1)c/	((0.4)c/	1.9	(51.5)c/	(0.4)c/	1.7		(0.5)c/	1.6	(72.1)c/	(0.5)c/	1.6	(72.2)c/	(0.5)c/	1.6	(72.3)c/
Gulf Coast	1770.1	3.5	106.6	69.5	5.1	173.6	136.4	6.9	206.0	185.8	7.0	214.3	238.6	7.0	221.4	289.2	7.0	228.1	336.9
Arkansas	48.9	-	26.6	-	-	45.5	-	-	45.7	-	-	45.9	-	-	46.1	-	-	46.3	-
Louisiana	387.3	-	48.3	9.8	-	83.8	18.2	-	103.4	19.4	-	107.2	20.5	-	110.4	21.5	-	113.4	22.6
Mississippi	48.6	3.5	23.3	-	5.1	32.0	-	6.9	40.3	-	7.0	41.1	-	7.0	41.1	-	7.0	41.1	-
Texas	1285.3	-	8.4	59.6	-	12.3	118.2	-	16.6	166.4	-	20.1	218.1	-	23.8	267.6	-	27.3	314.3
Rocky Mountain	53.1	2.3	2.3	0.9	20.9	4.8	0.9	25.4	5.2	1.0	28.7	5.4	1.0	31.2	5.6	1.1	33.5	5.7	1.1
Colorado	48.5	2.3	1.9	0.9	20.8	4.4	0.9	25.3	4.7	1.0	28.6	4.9	1.0	31.2	5.1	1.1	33.4	5.2	1.1
Montana	1.0	n/	0.5	-	n/	0.5	-	n/	0.5	-	n/	0.5	-	n/	0.5	-	n/	0.5	-
Utah	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pacific Southwest	624.5	3.3	393.3	(3.9)c/	4.6	546.4	(3.9)c/	4.6	547.6	(3.9)c/	4.6	548.6	(3.9)c/	4.6	549.0	(3.9)c/	4.6	549.6	(3.9)c/
Arizona	49.9	1.0	31.0	-	1.5	48.3	-	1.5	48.3	-	1.5	48.3	-	1.5	48.3	-	1.5	48.3	-
California	468.5	-	340.4	-	-	463.6	-	-	464.9	-	-	465.9	-	-	466.3	-	-	466.9	-
Nevada	41.9	4.3	12.0	-	5.0	18.7	-	5.0	18.7	-	5.0	18.7	-	5.0	18.7	-	5.0	18.7	-
New Mexico	64.5	(1.9)c/	9.9	(3.9)c/	(1.9)c/	15.6	(3.9)c/	(1.9)c/	15.6	(3.9)c/	(1.9)c/	15.6	(3.9)c/	(1.9)c/	15.6	(3.9)c/	(1.9)c/	15.6	(3.9)c/
Pacific Northwest	2.5	-	1.0	-	-	1.0	-	-	1.0	-	-	1.0	-	-	1.0	-	-	1.0	-
Oregon	2.5	-	1.0	-	-	1.0	-	-	1.0	-	-	1.0	-	-	1.0	-	-	1.0	-
Total U. S.	3436.1	103.6	589.7	27.5	294.2	927.6	91.4	336.9	979.0	131.6	341.9	999.7	174.0	346.2	1038.4	224.8	348.5	1074.0	272.6

Note: Data may not add to totals due to independent rounding.

a/ Excludes allowance for increases in generation. The total of coal,oil and indeterminate would equal the reduction in gas volume from the 1973 base period. The estimates for coal and oil reflect only known capability to burn alternate fuels.

b/ No adjustment for thermal efficiency.

c/ Brackets denote increases in gas consumption from 1973 levels which would correspondingly reduce alternative fuel consumption.

n/ Negligible.

Schedule V-4

1973 DISTRIBUTION OF FUEL CONSUMPTION BY ELECTRIC UTILITIES

(Percent)

	Natural Gas	Fuel Oil		Coal	Nuclear	Hydro	Total
		Distillate	Residual				
New England	0.8%	1.9%	67.2%	3.3%	19.6%	7.2%	100.0%
Connecticut	--	2.3	76.5	0.3	19.0	1.9	100.0
Maine	--	1.0	35.5	--	41.1	22.4	100.0
Massachusetts	1.6	1.7	79.4	0.1	15.4	1.8	100.0
New Hampshire	--	1.3	24.0	46.1	--	28.6	100.0
Rhode Island	--	1.8	97.9	--	--	0.3	100.0
Vermont	2.0	4.6	0.1	2.7	56.2	34.4	100.0
Appalachian	2.4	3.0	23.2	60.9	3.4	7.1	100.0
Delaware	1.7	2.8	60.2	35.3	--	--	100.0
District of Columbia	--	3.2	82.1	14.7	--	n/	100.0
Kentucky	1.4	n/	0.1	91.4	--	7.1	100.0
Maryland	3.1	3.1	54.7	31.3	--	7.8	100.0
New Jersey	6.2	12.6	59.8	13.1	9.1	(0.8)	100.0
New York	6.7	4.8	44.3	11.5	6.6	26.1	100.0
Ohio	0.7	1.2	0.9	97.2	--	n/	100.0
Pennsylvania	0.3	2.2	10.4	85.3	0.4	1.4	100.0
Virginia	1.0	1.8	43.7	30.7	19.3	3.5	100.0
West Virginia	n/	n/	0.7	98.3	--	1.0	100.0
Southeast	7.6	1.7	15.8	58.8	3.6	12.5	100.0
Alabama	0.4	0.8	--	76.5	0.5	21.8	100.0
Florida	20.4	2.4	52.3	18.6	6.0	0.3	100.0
Georgia	9.6	4.9	5.9	67.8	--	11.8	100.0
North Carolina	0.7	1.0	6.0	79.5	--	12.8	100.0
South Carolina	8.2	2.4	8.9	44.0	22.6	13.9	100.0
Tennessee	2.0	0.2	--	78.4	--	19.4	100.0
Great Lakes	3.5	2.2	4.1	77.3	11.4	1.5	100.0
Illinois	3.5	3.0	3.8	69.9	19.7	0.1	100.0
Indiana	1.5	0.5	0.6	96.6	--	0.8	100.0
Michigan	2.7	2.7	9.9	77.6	5.1	2.0	100.0
Wisconsin	8.5	1.6	1.7	64.6	17.5	6.1	100.0
Northern Plains	22.8	2.1	1.2	55.1	5.2	13.6	100.0
Iowa	31.3	1.8	0.8	61.4	--	4.7	100.0
Minnesota	22.1	3.6	2.2	56.7	12.2	3.2	100.0
Nebraska	48.0	2.4	0.7	29.4	6.0	13.5	100.0
North Dakota	0.2	0.1	n/	81.5	--	18.2	100.0
South Dakota	6.1	0.4	1.6	13.1	--	78.8	100.0
Mid Continent	52.1	0.8	1.2	39.6	--	6.3	100.0
Kansas	83.0	1.7	3.4	11.9	--	n/	100.0
Missouri	12.8	0.7	0.7	81.1	--	4.7	100.0
Oklahoma	86.9	0.3	0.4	n/	--	12.4	100.0
Gulf Coast	81.6	3.8	5.6	6.2	--	2.8	100.0
Arkansas	52.3	1.0	25.0	--	--	21.7	100.0
Louisiana	90.3	5.0	4.7	--	--	--	100.0
Mississippi	43.5	21.1	11.2	24.2	--	--	100.0
Texas	86.0	2.3	2.5	7.9	--	1.3	100.0
Rocky Mountain	13.6	0.5	1.5	59.2	--	25.2	100.0
Colorado	31.6	0.6	2.3	57.7	--	7.8	100.0
Montana	2.2	0.9	0.4	20.1	--	76.4	100.0
Utah	10.1	0.2	5.1	28.3	--	56.3	100.0
Wyoming	0.6	0.1	0.3	90.4	--	8.6	100.0
Pacific Southwest	30.6	2.0	27.8	13.7	1.4	24.5	100.0
Arizona	30.4	15.8	12.2	5.4	--	36.2	100.0
California	32.4	0.4	37.1	--	2.0	28.1	100.0
Nevada	27.9	0.6	2.0	58.1	--	11.4	100.0
New Mexico	20.7	1.4	1.1	76.5	--	0.3	100.0
Pacific Northwest	0.2	0.4	n/	5.9	3.9	89.6	100.0
Idaho	--	n/	--	--	--	100.0	100.0
Oregon	0.9	0.6	n/	--	--	98.5	100.0
Washington	n/	0.3	n/	8.6	5.6	85.4	100.0
Total 48 States	18.3	2.3	15.8	45.0	4.4	14.2	100.0

n/ Negligible

Sources: Gas: Future Requirements Committee, Future Gas Consumption in the United States, Supplement to Vol. 5, September 1974.
Coal: Federal Power Commission News Release Number 20333, dated May 24, 1974.
Nuclear and Hydro: Edison Electric Institute, Statistical Yearbook of the Electric Utility Industry for 1973, November 1974.
Fuel Oil: U.S. Bureau of Mines, Sales of fuel oil and kerosine in 1973.